

SOME ECONOMIC ASPECTS OF COUNTY CONSOLIDATION
IN ARIZONA WITH PARTICULAR REFERENCE TO
PIMA AND SANTA CRUZ COUNTIES

by

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FOREWORD

The increase in the tax burden during the depression years of 1929-1933 has evoked strong demands for governmental economy and the importance of the county as a tax-spending unit has invited a study of the possibility of saving through county consolidation. This study is made in an attempt to determine the economies that might be gained by consolidation of two Arizona counties.

The term "county consolidation" is used to designate the union of two or more counties to carry on various county functions as a unit. It is the formation of what might be called greater counties from the now existing group of counties in Arizona.

There seems to be general agreement among students that there are more units of local government today than are needed, with modern methods of transportation and communication, and we hope by this thesis to produce some approximation of the exact extent of such anticipated economies as may be effected by the suggested consolidation of Pima and Santa Cruz Counties.

By so limiting the field and studying the subject only from economic aspects, it becomes possible to arrive

at some definite conclusions of an impartial, and non-partisan nature. No effort has been made to establish or to offer propaganda. Our purpose is to discover the true financial situation existing in the two counties as separate units, and to project into a joint or combined unit these costs after eliminating duplication.

The author believes it possible that the people of the counties discussed and of other Arizona counties may find in this study the basis for further investigation and improvement of their county governmental units by consolidations, and so, effect economies in their local government, thereby lightening their tax burden.

The author wishes to make grateful acknowledgment for the invaluable assistance which he derived from the suggestions and guidance of Professor E. J. Brown, Head of the Department of Economics and Director of the School of Business and Public Administration; likewise to Professor Warren A. Roberts, under whose direction this study was made, for his extremely helpful criticisms and for his valuable assistance in the field of Public Finance; and to the other members of the Economics, Political Science and Agricultural Economics Departments of the University of Arizona for their suggestions and comments, especially Professors R. A. Harvill and A. B. Schmidt.

In concluding this foreword, it is the desire of the author to thank the Pima and Santa Cruz county officials and the many people throughout the State of Arizona who have so kindly helped him to secure information. In particular, thanks are due to Mr. Gladstone Mackenzie, Clerk of the Pima County Board of Supervisors, for his generous counsel, advice and his direction in the use of the public files, and for his suggestions in regard to the estimates used in the thesis. And, finally, general acknowledgment is due the authors of many subjects embraced within the broad field of county government, upon whose writings the author has leaned heavily and far beyond the possibility of specific acknowledgment other than given in footnotes and the bibliography.

Walter D. Adams

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CHAPTER I

DETERMINING OPTIMUM OR MINIMUM ECONOMIC SIZE OF A COUNTY UNIT

Before making any analysis of the advantages or disadvantages of consolidation, it is convenient to establish the standards by which to judge the efficiency of a county organization.

The problem at hand will be considered from the standpoint of each of these criteria:

1. Assessed valuation.
2. Per capita wealth.
3. Ratio of taxes for county purposes to gross income of population.
4. Per capita county expenditures.
5. Area.
6. Population.
7. Relation of county boundary lines to mountain ranges.
8. Distance limit to county seat.
9. Accessibility to all parts of county.
10. Ratio of National Parks, Forests, Reservations and other non-assessable land.
11. Characteristics of land.
12. Boundary relation to economic, trade and natural social area.
13. Location of county seat.

14. Natural flow of traffic.

15. Diversification of economic activity.

A Colorado study¹ suggests the basic objectives in county consolidation in a similar manner, while it is interesting to note that Professor Paul W. Wager considers the average North Carolina county "about right in size, population and wealth to maintain the necessary services with a reasonable tax rate!"²

We shall proceed to discuss each factor and compare the Arizona status with these criteria. There is a general paucity of definite material and these conclusions are the author's opinion of the best he found available and are based on extensive research and observation. In no case are these criteria to be considered as final or not subject to change. This thesis is done in recognition of the studies

1. Heckart and Klemmedson, County Consolidation in Colorado, Colorado Agricultural College, Bulletin #406, December, 1933, pp. 18, 31-32. This study suggests that the basic objectives in county consolidation are:
 - A. At least \$20,000,000 in assessed valuation under present conditions and price levels.
 - B. Population of at least 20,000 people.
 - C. Taxes for county purposes should not exceed 1.5% of the gross income of the population.
 - D. Distances to county seat should not be over sixty miles for the greater percentage of the population.
 - E. County lines should not cross mountain ranges.
 - F. The inhabitants should have easy accessibility to all parts of the county.
 - G. The natural flow of traffic should be toward larger cities and towns.
2. Paul W. Wager, County Government and Administration in North Carolina, p. 421.

that have gone before and recognizes the fact that some of the standards were decided in other states and were not necessarily final in those states nor immediately applicable to this thesis. Their findings furnish something of a guide for the standards of measurement of counties in Arizona. Along with these standards, this study makes an effort to observe and analyze conditions as they are in Arizona and to create new standards by such observation; while it must be recognized that none of these are final or definite, their inadequacy is answered in part by the present demand for further county division, to make as careful and logical study of optimum desirable county size as can be made. We shall state in each case the standard that appears to be accepted by authorities in the field and shall then indicate the sources from which these conclusions were drawn.

Wealth Factor

Since these wealth criteria are somewhat interrelated we shall consider them as a group.

1. AN ASSESSED VALUATION OF AT LEAST \$20,000,000 UNDER PRESENT CONDITIONS AND PRICE LEVELS. (Approximate 1932-34 average or relative level.)

This seems to be the necessary minimum. The Colorado study of county consolidation for that state found that the wealth of the sixty-two Colorado counties, excluding Denver, ranges from \$900,000 to \$900,000,000. The average

wealth of all counties including Denver is \$16,181,627, or an assessed value of \$1341 per capita. The study determined that in county government \$20,000,000 is the point below which increasing cost begins.

Increasing per capita cost begins at this point due to the inability of a fair tax rate on a smaller amount to provide sufficient funds to employ a complete county organization such as is needed to provide reasonable governmental services.

The tax delinquency in Colorado, of the small counties on taxes levied in 1931 and collected in 1932, was 37%, while the wealthier counties showed a delinquency of 14%; the average being 21%. Delinquent taxes indicate that people have approximately reached the limit of their ability to pay taxes.

The tax rates for general county purposes, exclusive of general and special school levies, vary from two mills to twenty mills. Ordinarily, high tax rates indicate lack of sufficient wealth to support the county government without adding a burdensome mill levy. Poor counties had a tax rate of 12.36 mills per \$100 assessed valuation while counties with \$20,000,000 assessed valuation had a tax rate of but 4.60 mills.

The drain of county expenditures on income is 3.3% of the gross income of the locality, in small Colorado counties as compared with 1.1% in the wealthier counties, i.e. those

over \$20,000,000 assessed valuation; the average drain being 1.8%.

The average North Carolina county which is considered by Professor Wager to be about satisfactory in wealth has an average assessed valuation of \$28,307,581.74. There are one hundred counties in North Carolina with an aggregate assessment of \$2,830,758,174. We find the statistical median county assessed valuation (which indicates the wealth) to be \$17,407,407.¹ This is an indication that a county should have a \$20,000,000 assessed valuation. \$28,000,000 appears high but when we consider that an unusually large county will weight the figure and compare it with the median of a little better than \$17,000,000, it seems that he would substantiate the statement that this criterion is approximately correct at \$20,000,000.

The 1932 report on county government in Mississippi similarly substantiates my belief in indicating "that merging of counties in Mississippi might contribute in substantial measure to improvement in the efficiency and economy of local administration". For example, the report proved that a combination of Sharkey and Issaquena Counties would create a consolidated unit of 828 square miles in area with an estimated true valuation for 1929 of \$20,441,825. It was

1. Report of the Tax Commission of North Carolina, 1932, pp. 74-77, Raleigh, 1932.

predicted that consolidation would permit Sharkey and Issaquena to reduce their combined administrative costs by one-fourth or one-third, and yet obtain a better public service.¹

On the basis of average valuation we find that Arizona compares most favorably with the above statements, but when we examine the median which we find to be approximately \$15,600,000 in 1934, and which is considerably below the desired amount, we conclude that there must be a number of Arizona counties far below this criterion or standard.

2. A PER CAPITA WEALTH OF \$1,200 TO \$1,300 IS DESIRABLE AND THE BASE MINIMUM SHOULD BE \$1,000.

The per capita wealth of the State of North Carolina is \$892, while the per capita wealth of the median county is \$707.² Though Professor Wager considers North Carolina about satisfactory in wealth, it seems to the writer that this state is a little on the lean side, due to the large poor population which is found in most Southern States.

In Ohio we find that in 1931 the median per capita

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1. Institute for Government Research of the Brookings Institution, "Report on a Survey of the Organization and Administration of State and County Government in Mississippi," 1932, p. 684.
 2. Based on Report of the Tax Commission of North Carolina, 1932, pp. 74-77, and 15th Census of the United States, "Population," Vol. III, Part 2, Department of Commerce, Bureau of the Census, Washington, D. C., pp. 333, 342-350.

assessed valuation was \$1,385, which is approximately double the wealth which Professor Wager considers satisfactory, and yet Ohio publishes these figures as an indication of the need for consolidation.¹ While the quality of governmental service would indicate which extreme is correct, it seems that a figure nearer to the upper one rather than the compromise figure would be correct. Arizona, with a per capita wealth of \$819.13, is, therefore, but little better than North Carolina and should be considered weak from the standpoint of this criterion.

3. TAXES FOR COUNTY PURPOSES SHOULD NOT EXCEED 1.5% OF THE GROSS INCOME OF THE POPULATION.

This is a criterion accepted from the Colorado study without any effort to verify the quantity. Just what the percentage should be is undetermined by this thesis, but it is obvious to the author that the tax burden should represent but a small per cent of the gross income. From the economic standpoint, it is apparent that those people with high economic production costs tend to become the submarginal producers and must eventually lose in competition with residents (producers) of other counties where the costs are low (other things being equal); and taxes are costs. They

1. Report of the Governor's Commission on County Government, "The Reorganization of County Government in Ohio," p. 23.

would also lose, it must be remembered, if government expenditure is inadequate to provide necessary services.

4. THE PER CAPITA COUNTY EXPENDITURES SHOULD NOT EXCEED \$9.00 OR \$10.00.

The per capita cost of government in 1931 of all Colorado counties except Denver ranged from \$14.95 in the small counties to \$7.66 in the wealthier counties, the average being \$9.34.¹

Bradshaw in his Missouri study² shows that in general it may be said that the county tax levy varies inversely to the per capita wealth. There are undoubtedly other factors to consider but it is evident that those counties with a low per capita wealth pay a high tax rate on that wealth, while in the wealthier counties, the tax burden is relatively less. This fact is clearly shown in the following "Table Classifying the Rural Counties according to their

1. Heckart and Klemmedson, "County Consolidation in Colorado," Colorado Agricultural College, Bulletin #406, December 1933, pp. 11-31.
2. W. L. Bradshaw, "The Missouri County Court," University of Missouri Studies, Vol. VI, #2, April 1931, p. 118. Footnote: Bradshaw observed that it appears to be true that poorer counties spend up to the legal limit. References: Bradshaw, op. cit., p. 16, quoting from Missouri Constitution, 1875, X, 11. Ibid., p. 104, quoting from Revised Statutes, Missouri, 1919, Secs. 12, 762-12, 772.

per Capita Wealth, Location, and Total County Levy."¹

| Class of County: | Per Capita Wealth | Counties: | Counties Visited | |
|------------------|----------------------|-----------|------------------|--------------|
| | | | No. | Average Levy |
| Poorest | Under \$345 | 1 | 1 | \$0.95 |
| Very Poor | \$345- 485 | 3 | 0 | |
| Poor | 485- 680 | 22 | 3 | .997 |
| Below Average | 680- 950 | 18 | 7 | .766 |
| Average | 950-1330 | 23 | 10 | .707 |
| Above Average | 1330-1860 | 33 | 10 | .586 |
| Well-to-do | 1860-2600 | 10 | 2 | .535 |
| Wealthy | 2600-3650 | 1 | 0 | |

Similarly the Ohio study² also indicates that the per capita county expenditures vary inversely to population in the counties:

Per Capita County Expenditures, for 1930 and 1931.

| Population Group | Total Operation and Maintenance | |
|---------------------|---------------------------------|---------|
| | 1930 | 1931 |
| Over 100,000 | \$ 7.59 | \$ 7.62 |
| 50,000-100,000 | 8.78 | 7.99 |
| 30,000- 50,000 | 10.46 | 9.34 |
| 20,000- 30,000 | 10.59 | 9.97 |
| 10,000- 20,000 | 14.05 | 13.10 |

And likewise the per capita cost for several Michigan

1. Bradshaw, op. cit., p. 118. See also Table I, Appendix.
2. Report of the Governor's Commission on County Government, "The Reorganization of County Government in Ohio," p. 35.

counties is given by Bromage to be: Casa, \$9.44; Antrim, \$21.89; Iron, \$23.11; Luce, \$29.40; and Roscommon, \$37.20.¹ (These high cost counties have a low assessed valuation and sparse population.)

The per capita county tax burden for Arizona counties in the fiscal year 1934-35 was \$18.16--a rate which indicates that Arizona counties are in need of fundamental financial adjustment which will bring about a lower per capita county expenditure. In this connection it has been observed by the author that poorer counties seem to have the most inefficient offices, the most lax financial practices, and highest overhead costs in relation to value of business transacted.

5. AREA SHOULD BE RELATIVELY LARGER THAN THAT FORMERLY CONSIDERED SUFFICIENT OR MINIMUM AS IS THE SQUARE OF THE TRAVELLING SPEED OF MODERN TRANSPORTATION TO THE SQUARE OF THE TRAVELLING SPEED OF THE HORSE-AND-BUGGY ERA.

It is difficult to arrive at a dogmatic statement of this criterion since it is variable according to the other factors--relative wealth, scarcity of population, character of land and topography--which would definitely influence the limits which in the Southwest may be figured to be between 10,000 and 30,000 square miles. It may be said that a dense population would definitely limit the area limit, while a

1. A. W. Bromage, "American County Government," p. 212.

high wealth factor would lessen the need for a large county. Topography is important only in its effect on the speed of travel.

There are some 3071 counties in the United States and they vary considerably in size.¹ The counties of the East North Central States average 563 square miles; those of the Middle Atlantic States average 667 square miles; those of the South Atlantic States average 467 square miles; those of the West North Central States average 825 square miles; those of the Pacific States average 2,391 square miles; while those of the Mountain States average 3,101 square miles.²

In North Carolina, a survey recommended that the area of the counties be between 500 and 1,000 square miles.³

The Ohio survey considers their average area of 448 square miles to be too small.⁴ The same report notes that even in a heavily populated state like New York more than one-third of the counties exceed 1,000 square miles.⁵

We have gained an idea of the actual area of the counties in the United States. We shall turn to a consideration of the attempts to define the minimum desirable size and find

1. Note: A letter dated October 31, 1935, and received by the author from the Bureau of Agricultural Economics of the United States Department of Agriculture states that there are "3,071 counties in the country."

2. Bromage, op. cit., pp. 205-207.

3. Institute for Government Research of the Brookings Institution, "County Government in North Carolina," p. 22.

4. Report of the Governor's Commission on County Government, "The Reorganization of County Government in Ohio," p. 3.

5. Ibid., p. 16.

but two indications to guide us.

A minimum area is recognized in Texas:

The legislature has the power of creating counties under the following constitutional restrictions. In the territory not included in organized counties no new counties may be created with an area less than 900 square miles.¹

Similarly, we note Bradshaw's comments:

All of Missouri's constitutions have placed limitations on the legislature's power to establish new counties. This has generally been done by requiring a minimum area and population for each county.

Present constitution, adopted in 1875,... (minimum) area is reduced to 410 square miles.

In spite of...constitutional provisions, Missouri has six counties with less than the present minimum area of 410 square miles.....The average county has approximately 600 square miles,... there are nine counties with more than twice the minimum constitutional area, Texas county being the largest with 1,159 square miles.²

It was thus recognized as early as 1875 that it is necessary to set a minimum area for the counties which subdivide a state. This minimum of 410 square miles in area was established in the "horse and buggy" era. Telephone communication and motor transportation have so changed conditions that an economic area should be enlarged in the same ratio as the square of the increased speed of communication,

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1. H. G. James, "County Government in Texas," University of Texas Bulletin #1732, Municipal Research Series #15, June 5, 1917, Austin, Texas, p. 10.
 2. Bradshaw, op. cit., p. 12.

since it is possible to travel several times as far with the same cost of time and money and the coverable area therefore is increased as the square of the distance travelled.

In this connection it is interesting to note a concrete example of the high cost of small counties, given in the case of a Kansas farmer and cited in Capper's Weekly:

He owned land on the Colorado line, part of the land in Kansas and part of the land in Colorado. The state line is an imaginary line. The land is of equal value on both sides of it. Last year this Kansas farmer paid four times as much taxes on the Kansas side of the line as he did on the Colorado side. The apparent reason was that the Kansas county, in which his farm was located, had less than one-fourth of the area and only one-sixth of the population of the Colorado county just across the line. In other words one courthouse and one set of county officers on the Colorado side are serving more than four times the area and six times the population served by a similar set on the other side of the line in Kansas. That is irrefutable testimony to the inefficiency of a too-small county area.¹

Arizona counties average approximately 7,986 square miles while the median county is approximately 8,500 square miles. It is thus apparent that while the area of the counties compares favorably with other states on the basis of present day size, there are a number of counties which fall short of the desirable minimum on the basis of the original intent of governmental officials of several generations ago

1. Heckart and Klemmedson, "County Consolidation in Colorado," p. 29. (Quoting from Thomas H. Reed, "Redrawing the Boundaries of Local Government," Government Series Lecture No. 11, Univ. of Chicago Press, 1932.)

and the comparative change in the relative speed of travel.

Population Factor

6. THE POPULATION OF A COUNTY SHOULD EXCEED 20,000.

This criterion sets a minimum standard, however; there are cases where even a 20,000 population can be considered insufficient, but it is usually a case of superfluous county services or an insufficiency of assessed valuation which complicates the situation.

The Colorado report states that "the population in the consolidated counties should be preferably over 20,000."¹

The 1932 report on county government in Mississippi suggests the consolidation of Sharkey and Issaquena Counties which would make a joint 1930 population of 19,611.²

The population of the median county in Ohio is 29,510. The median population of New York counties, again excluding the counties making up New York City, is 50,000, while in Massachusetts, excluding the two island counties, the median population is over 300,000. The median population density is 68 per square mile for Ohio.³

1. Heckart and Klemmedson, op. cit., p. 31.

2. Institute for Government Research of the Brookings Institution, "Report on a Survey of the Organization and Administration of State and County Government in Mississippi," 1932, p. 684.

3. Report of the Governor's Commission on County Government, "The Reorganization of County Government in Ohio," pp. 16-17.

A quotation from the Ohio report is also interesting in this connection:

The evidence strongly indicates that relative to population the cost of maintaining county government rises as the population of the county falls, especially below a population of 50,000 and that it is highest in counties of less than 20,000, proper consideration being given in such comparisons to differences in the level of wealth.¹

The North Carolina population, considered generally satisfactory by Professor Wager, has been analysed. A statistical study of the population of that state based on the Fifteenth Census of the United States, shows that the total population of the 100 counties in 1930 was 3,170,276, which gives an average county population of 31,702, and a median county population of 24,615.

Similarly we have analysed California and find the median of California county population, using 1930 census figures, to be 27,143. Fourteen of California's 58 counties had a population under 10,000. The mean population of the 58 counties is 93,300; and excepting the four unusually large counties (Alameda, San Francisco, San Diego and Los Angeles) we find the statistical mean to be 40,400. The counties vary from Alpine with a population of 241 to Los Angeles with a population of 2,208,492.

1. Report of the Governor's Commission on County Government, "The Reorganization of County Government in Ohio," p. 35.

Population density is a factor of importance. It is apparent that sparsely settled sections should have counties of larger area, since such sections are usually low in assessed value per square mile. There are sections of great population density, such as Pennsylvania with 512 people per square mile or Massachusetts with 213 people per square mile, while the Pacific States--Washington, Oregon and California, in 1930, had a population density of 25.8 persons to the square mile. We note also that the West North Central States--Minnesota, Iowa, Missouri, North and South Dakota, Kansas, and Nebraska, has a population density of 26 persons to the square mile.

Arizona with a population of 435,573, has a mean county population of 31,112, which is misleading due to the abnormally (relatively) large county of Maricopa, which has more than one-third of the total Arizona population. The median is approximately 19,000, which seemingly compares favorably with above data. However, seven of the Arizona counties are below the 20,000 population criterion; several are considerably below this mark.

The Indian population of Arizona must be considered and accorded special consideration due to the fact that they represent wards of the federal government and are not, as a group, as beneficial residents to the county from the economic viewpoint as the ordinary populace. Allowing the

deduction from the population statistics of these people, we find that nine of the fourteen Arizona counties fall below the minimum set by this population criterion.

Geographical and Topographical Features as Factors

While there is a scarcity of material on this subject, the following standards appear to be self-evident:

7. COUNTY BOUNDARY LINES SHOULD NOT CROSS HIGH IMPASSABLE MOUNTAIN RANGES.
8. DISTANCE TO THE COUNTY SEAT SHOULD NOT EXCEED THAT WHICH CAN BE COVERED IN APPROXIMATELY THREE HOURS WITH MODERN VEHICULAR TRAVEL, BY THE GREATER PERCENTAGE OF THE POPULATION.
9. THE INHABITANTS SHOULD HAVE EASY ACCESSIBILITY TO ALL PARTS OF THE COUNTY, ESPECIALLY THE COUNTY SEAT.

These criteria are self-explanatory. Mountain ranges and passes are physical features which must be considered in certain parts of Arizona.

It is generally conceded that the county seat should be the largest town and it should be situated near the center of the county. Herman G. James states that "this county seat must be located within five miles of the geographical center of the county."¹

The accessibility of the county seat by good roads at all times of the year is necessary. Any county consolidation

1. James, op. cit., p. 12.

plan must provide that the majority of the people of the county will be within a few hours travelling distance to the county seat, by the present improved methods of vehicular travel. It must be remembered today that distance is relatively eliminated by automobiles, good roads, telephones, rural mail, daily press, and radio, so that the nearness of the county buildings and county officials is far less important than formerly.

Arizona has a number of situations where, apparently, consideration has not been given to these criteria and they will be discussed in a later chapter.

Productivity and Character of the Land as Factors

10. ANY LARGE AREA OF PUBLIC OR OTHER NON-ASSESSABLE LAND MUST BE DISCOUNTED WHEN IT COMPRISES A CONSIDERABLE PART OF THE ECONOMIC COUNTY AREA.

11. CHARACTERISTICS OF ASSESSABLE LAND MUST BE CONSIDERED.

In this group of criteria we discuss conditions which apply generally and conditions which are special to certain sections of the country.

A large area of public or non-assessable lands will greatly affect county finances since the county derives little or no revenue from those lands under state or federal control, and yet the presence of these lands within the county boundary increases costs within that county by "iso-

lating" certain areas, necessitating greater travel on the part of both county employees and citizens. National Forests, Indian Reservations, Military Posts, and Homestead Lands are a great disadvantage when it comes to raising revenue for county purposes, since they are tax-exempt, or nearly so.

The State of Arizona has large areas which must be considered under this factor. (See Table K.) The federal revenue which these areas yield is given in Table L, and is insignificant in comparison with their possible yield if these lands were under private ownership.

It is also important to consider the character and productivity of the land under private ownership. Grazing land has a much lower assessed valuation than irrigated or mineral land. Dry desert and mountain waste land is practically worthless and must be separated from good or fair grazing land. The amount of urban and industrial land is of importance to the assessor and taxgatherer. The relative importance of the various types of land to the Arizona counties is shown in Table M.

Trade Area Factors

12. THE POLITICAL AREA OR BOUNDARY OF THE COUNTY SHOULD COINCIDE WITH THE ECONOMIC TRADE AND NATURAL SOCIAL AREA.
13. THE COUNTY SEAT SHOULD BE CENTRALLY LOCATED AND SHOULD BE AN IMPORTANT BANKING AND TRADING CENTER.

14. THE NATURAL FLOW OF TRAFFIC SHOULD BE TOWARD THE LARGER CITIES AND TOWNS.

Again we have grouped several criteria in one group, a group which does not necessarily promote economy in itself, but the saving of taxpayer's money is not the only reason for county consolidation. Existing counties are often artificial units, whose boundaries do not tend to conform with natural trade areas. They often divide economic and sociological regions into several artificial political areas. In consolidating counties the political area should be made to coincide closely with actual community economic and sociologic areas. If people do their banking and trading in a trading center located in an adjoining county, the accumulating wealth goes to support a smaller area than that from which it is derived. The strictly rural or the mining counties must thus suffer a high tax rate, or inferior governmental service or both. So we see that as a matter of equity, the county boundaries should be recast so as to conform with the new and larger economic areas which modern transportation and economic conditions have brought about.¹

To recast these boundaries involves a detailed study of the geographical features, road facilities and the natural trading areas. The recognition of these trading areas is the natural basis for county consolidation. This

1. Heckart and Klemmedson, op. cit., p. 5.

implies deliberate and comprehensive regrouping of rural regions. In the cases of counties that actually have consolidated, the process has more often been one of expediency.

Professor George Wehrwein expresses a similar thought in these words:

These savings could better be realized, however, by county enlargement rather than by county consolidation. The merging of these three counties with their existing boundaries would not be as desirable as would be the obliteration of present boundaries and the creation of a new county based upon the natural conditions. For a considerable number of residents of the three counties, consolidation would increase the distance between them and their county seat; and it is quite possible that the additional transportation cost and inconvenience to such individuals would exceed any consequent tax reduction for them. Because of this fact, it would seem that the ideal way to enlarge counties is largely to ignore existing boundaries. Almost any consolidation of existing counties will aggravate some already absurd situations. Many present boundaries have little relation to trade areas.¹

Arizona has a number of examples where the people of a mining town or agricultural settlement cross county boundaries to shop. While I do not consider this group as important as several of the foregoing criteria, such as wealth, area and population, I believe that the trade and banking area criterion is fundamental and should be considered

1. G. S. Wehrwein, "Possible Farm Tax Reduction Through Changes in Local Government," Agricultural Experiment Station, University of Wisconsin, Madison, Wisconsin, March 1933, p. 13.

especially from the long term point of view.

Diversification Factor

15. THERE SHOULD BE A DIVERSIFICATION OF ECONOMIC ACTIVITY.

This criterion is suggested by the plight of the strictly mining counties during periods of depression or as a result of cessation of activities in the supporting mines.

There are sections of the country where counties could not change their plight but in Arizona it appears that all counties might be adjusted so as to be dependent on more than a single industry. It seems possible that mining counties could gain certain advantages from diversification. Thus they could consolidate with counties enjoying agricultural or tourist recreationist opulence for the sake of equalizing their burdens. Agriculture seems to pour forth a relatively continual wealth, while mining beneficence appears to be spasmodic. There is thus enough reason to believe that this is a substantial criterion in gauging a county's fundamental structure.

We have, therefore, fifteen criteria by which to judge the efficiency of a county organization:

1. An assessed valuation of at least \$20,000,000 under present conditions and price levels.
2. A per capita wealth of \$1,200 to \$1,300 is desirable and the base minimum should be \$1,000.

3. Taxes for county purposes should not exceed 1.5% of the gross income of the population.
4. The per capita county expenditures should not exceed \$9.00 or \$10.00.
5. Area should be relatively larger than that formerly considered sufficient or minimum as is the square of the travelling speed of modern transportation to the square of the travelling speed of the horse-and-buggy era.
6. The population of a county should exceed 20,000.
7. County boundary lines should not cross high impassable mountain ranges.
8. Distance to the county seat should not exceed that which can be covered in approximately three hours with modern vehicular travel, by the greater percentage of the population.
9. The inhabitants should have easy accessibility to all parts of the county, especially the county seat.
10. Any large area of public or other non-assessable land must be discounted when it comprises a considerable part of the economic county area.
11. Characteristics of assessable land must be considered.
12. The political area or boundary of the county should coincide with the economic trade and natural social area.
13. The county seat should be centrally located and should be an important banking and trading center.
14. The natural flow of traffic should be toward the larger cities and towns.
15. There should be a diversification of economic activity.

CHAPTER II

COMPARATIVE ANALYSIS OF TWO ARIZONA COUNTIES

A careful survey has been made of the possible savings to be effected by a general consolidation¹ of Pima and Santa Cruz counties in Arizona because these counties were originally together, and because of the widespread interest in the possibility that they be rejoined.

In the preceding chapter has been shown the criteria by which to judge the structure of local government. We shall compare the two counties by these standards.

Not only would consolidation reduce the number of units without curtailment or impairment of present services² but

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1. There are three forms of consolidation of county governmental services: 1. General, 2. Functional, 3. State Centralization. General consolidation is a complete union of two or more counties, while the second term is used when we refer to the coalition of two or more counties for the purpose of joint operation of a specific function such as a poor house, county hospital, etc. State centralization is a horizontal consolidation of a certain function of all counties which is then administered by a central state bureau, such as a state police department replacing the sheriffs and their deputies.
 2. It is possible to reduce taxes by reducing or eliminating services, but this study gives no attention to such possibilities. We have thus excluded extreme proposals for reorganization, reduction or elimination of services, and no attention is given to the possibilities for reducing the prices paid for governmental services and materials, except as such reduction is definitely associated with proposals for greater centralization of local units.

it will also offer distinct possibilities for improvement, since many units are too small to employ full-time specialists in the various fields of county government and service. From my observation, there is danger that in a county as small as Santa Cruz a public officer may not be occupied to the full limit of his capacity. This condition is the result of necessary specialization or division of labor and a too-small county unit.

We have endeavored to answer just one question: What tax reduction, without impairment of services, can reasonably be expected from enlarging the administrative areas of local government, and from re-allocating functions to larger units?

To merge the neighboring counties of Pima and Santa Cruz is to consolidate a wealthy, growing county with a relatively poor, declining county. The population of Pima County increased from 34,680 to 55,676, or 60%, during the period 1920-1930, while the population of Santa Cruz County declined from 12,689 to 9,684, or 24%, during the same period.¹ The population of the state increased from 334,162 in 1920 to 435,573 in 1930, or 23%. The population of both Pima and Santa Cruz counties is predominantly urban, since approximately 70% of the population reside in towns of over 700 people, in both cases.²

1. See Table A.

2. See Table E.

The per capita wealth of Pima and Santa Cruz counties in 1934 was \$1,002.71 and \$615.84, respectively, while for the state it was \$819.13.

The assessed valuation of Pima County in 1926 was \$69,-185,572 and in 1934 it was \$50,507,862, a decline of 27%; while the assessed valuation of Santa Cruz County declined from \$11,953,505 to \$5,938,578, or 50%, during the same period.¹ The assessed valuation of the State of Arizona declined from \$653,163,397 to \$356,783,687 or 46% during this period.² While this decline has been accompanied by "competitive undervaluation"³ it is probably true that in Arizona the depression in the mining industry is partly responsible for this decrease. In the first place the depressed state of copper and other mineral prices made the capitalized value of the mines relatively less, and the value of their property therefore declined. The relative assessment of agricultural counties thus became greater and following the attempt

1. See Table B.

2. See Table C.

3. This is nothing new, for in 1917 Mr. H. S. Gilbertson, in his book, The County, p. 109, in speaking of county assessors in general, wrote that: "The tax assessors of the county invariably find it infinitely to their advantage to serve the locality that pays their salaries. Assessors in the sister counties do likewise; with the ultimate result that general competition arises among the counties as to which shall value property lowest and thus pay the smallest proportion of the state's tax. The system is ideally designed to reward dishonesty and perjury and punish faithful obedience to the law."

of Maricopa County, the chief loser in this movement, to avoid increased state tax, all counties reduced assessed valuations.

The changing percentage may also be explained by the natural growth of certain counties due to the development of agriculture and the health and resort facilities, while other counties have remained stationary or declined. The latter are those whose prosperity was in whole or part due to mining developments.¹

The county tax rate of Pima County rose from \$1.21 per \$100 valuation in 1926 to \$1.987 in 1934, or 64%, while the county rate of Santa Cruz County rose from \$0.943 per \$100 assessed valuation in 1926 to \$3.0171 in 1934, or a 220% increase.² Thus it can be seen that while the tax paid by the Pima County taxpayer increased 20% from 1926 to 1934, the tax paid by Santa Cruz County taxpayers increased 60% during the same period.

The people of Santa Cruz County, like those throughout the state, are finding it increasingly difficult to meet their taxes, and they have slight reason to expect that their tax burden will be lightened by an increase in the taxable wealth. The delinquent taxes in Santa Cruz County in 1929 were \$7,999, and in 1933 were \$94,495, an increase of 1081%;

1. See Table H.

2. See Table D.

while in Pima County the delinquent taxes were \$123,201 and \$546,945 respectively, or an increase of 344%.¹

It seems apparent that Santa Cruz County is too small to support economic and efficient government regardless of the efforts of the county officials. The situation is fundamentally wrong since the county has less than \$6,000,000 in assessed wealth; has an area of but 1,229 square miles, of which 63% is National or State government-owned land,² and a population of only 9,684.

In addition to the decline of population since 1920, and the abnormal decline in assessed valuation (wealth) below the average for the state during a similar period, the trade with Mexico, across the border, has materially and probably permanently declined due to the attitude and efforts of the Mexican government to foster home industry and trade both by currency manipulation and by regulative restriction. The United States Tariff has also burdened imports from Mexico and is undoubtedly a factor in the decline of trade through this trade channel. This border trade is an important economic factor with the town of Nogales, which comprises 62% of the population of the county. Without state subsidies, this county would find it extremely difficult to operate at all, and it is obvious that the people receive,

1. See Table F.

2. See Table G.

relatively, little in exchange for their tax dollar.

The per capita cost of county government for Santa Cruz County was \$18.30 as compared to \$18.02 for Pima County; while for the state the average per capita cost of county government paid from the county taxes was \$18.16. While in terms of the tax base, the cost of Santa Cruz county government in 1934 was \$3.017 per \$100 of assessed valuation (taxable wealth) compared to a state average of \$2.217 per \$100 of assessed valuation and a Pima county rate of \$1.987 per \$100 of assessed valuation.¹ It is thus apparent that there is a need for reduction of these costs in Santa Cruz County with its lower taxable wealth and population than Pima County. The counties are much alike in per capita costs but in costs per dollar of taxable wealth, there is considerable variation; a difference of approximately 52% greater tax rate for Santa Cruz County over the Pima county rate.

Any proposal of county consolidation would not be complete unless it considered the bonded debt situation of the counties concerned. It is obvious, of course, that the combined area must assume the bonded debt of its component parts. The exact method, whether the entire area shall assume

1. Compiled from statistical figures given in Table 17, of the 12th Biennial Report of the State Tax Commission of Arizona, dated December 31, 1934.

the aggregate debt or whether the several districts shall be severally responsible for their respective debts, is not being considered, though it seems to the author that the only practical method, considering the maintenance of the county credit in the money market, would dictate that the new area be entirely responsible for the aggregate bonded indebtedness of the counties combined.

The net liability of the bonded indebtedness of Pima County on June 30, 1934, was \$5,768,192; and for Santa Cruz County it was \$1,066,166.¹ The per capita debt for Pima County was \$103.60; and for Santa Cruz County it was \$110.09.² The net liability of the bonded indebtedness per \$100 assessed valuation for Pima County was \$11.42; and for Santa Cruz County it was \$17.92.³

After consolidation, and assuming the entire area to be responsible for the aggregate bonded indebtedness of \$6,834,358, the per capita debt would be \$104.56; while net liability of the bonded indebtedness per \$100 assessed valuation would be \$12.10.

Thus, the per capita debt of former Pima County residents would be \$0.96 greater and the per capita debt of former Santa Cruz County residents would be \$5.53 less; while the net

1. See Table J.

2. See Table J, and Table A.

3. See Table J, and Table B.

liability of the bonded indebtedness per \$100 assessed valuation would be \$0.68 more for the former Pima County taxpayers and \$5.82 less for the former Santa Cruz County taxpayers.

To summarize the study to this point the Pima County population has increased between 1920 and 1930 while that of Santa Cruz County has declined. The per capita wealth of Pima County in 1934 was 63% greater than that of Santa Cruz County and 22% greater than the state average. The assessed valuation of Pima County declined only 27% between 1926 and 1934 while the decline in Santa Cruz County was 50%. The county tax rose only 20% in Pima County as compared to an increase of 60% in Santa Cruz County. The increase in tax delinquency between 1929 and 1933 was 344% in Pima County and 1081% in Santa Cruz County. Santa Cruz County appears to be too small to support an efficient county government.

Since it has been suggested that one way to reduce per capita county costs per dollar of taxable wealth is to increase the population and wealth per county unit by consolidating counties, we shall test this proposition by analyzing the present (fiscal year 1934-35) county costs of Pima and Santa Cruz counties from the standpoint of the savings that might be effected by their consolidation.

The following figures will indicate that the combined operation and maintenance cost of the two counties might be reduced by approximately \$46,220.59, if they should consoli-

date. This represents about 14% of their 1934 tax levies for general administration (General Fund). This saving is 4% of the entire tax bill of the two counties.¹ The revised tax rate would then be \$2.013 per \$100 of taxable wealth. The saving to the taxpayers of Santa Cruz County would thus be \$1.004 per \$100 of taxable wealth, an actual saving of 33% of their whole tax bill.

In addition to these estimated cash savings there would be the benefits derived from better county health service and the other higher quality services of the larger and more efficient and economic unit.

Communication between these counties is adequate and natural. Their interests are mutual and the combined county would be a natural geographic area and economic trade unit. Santa Cruz County does not have a costly set of county buildings that would have to be scrapped in the event of the consolidation of these counties. The courthouse could be remodeled into a Junior High School.

To arrive at the following schedules a survey was first made and the amount of business transacted in each county was estimated. A conference was held with each administrative official of every county department in Pima County to ascertain the additional costs which would be entailed in handling

1. See Table N.

the added burden of Santa Cruz County. Conferences were held with several administrative officials of various Santa Cruz County departments. The joint costs of the two counties were then calculated and compared with the probable costs of the proposed consolidated county. In this way the writer arrived at the estimated savings which are herein shown.¹ The following schedules show these estimates for each county office:

SCHEDULE 1

ASSESSOR COSTS OF PIMA AND SANTA CRUZ COUNTIES, IN THE FISCAL YEAR 1934-1935, AND THE PROBABLE COSTS IF THESE COUNTIES SHOULD CONSOLIDATE

| Cost Item | 1934-1935 Costs | | | Probable costs under Consolidation |
|------------------------------------|--------------------|--------------------|--------------------|------------------------------------|
| | Pima County | Santa Cruz County | Total | |
| Salaries: | | | | |
| Assessor | \$ 2,700.00 | \$ 2,250.00 | \$ 4,950.00 | \$ 2,700.00 |
| Chief Deputy | 2,100.00 | 600.00 | 2,700.00 | 2,100.00 |
| Deputies | 14,226.00 | | 14,226.00 | 14,826.00 |
| Bond Premiums | 712.50 | 253.80 | 966.30 | 731.50 |
| Auto Expense, Travel | 493.68 | 225.00 | 718.68 | 693.68 |
| Office Expense, Record forms, etc. | 2,057.80 | 396.14 | 2,453.94 | 2,385.71 |
| Total | \$22,289.98 | \$ 3,724.94 | \$26,014.92 | \$23,436.89 |

1. After adopting the method of survey in conference with Professor Warren A. Roberts, the author found that it practically coincided with the method used by Professor George S. Wehrwein of the University of Wisconsin in his special bulletin, "Possible Farm Tax Reduction Through Changes in Local Government," Agricultural Experiment Station, Madison, Wisconsin, March 1933, from which several general ideas have been adapted to the present thesis.

The cost of operating the assessor's office should be examined to determine whether the cost per schedule (or list) can be reduced. In this survey and study, we find the cost per schedule in Pima County to be \$1.25, while that of Santa Cruz County is \$2.12. These figures take into account the number of real estate assessment lists and the assessor's office costs after adjustment due to issuing auto licenses. The study of Colorado assessors' offices by Klemmedson shows comparative figures on these costs. The cost of operating the El Paso County Office in Colorado, for 1930 was as follows:

| | |
|----------------------------|-------------|
| Salary, Assessor | \$3,000.00 |
| " Deputy | 2,012.50 |
| " Clerks | 7,431.75 |
| " Field Deputy | 1,878.75 |
| " Extra Clerks | 1,222.50 |
| Books, Stationery, Postage | 1,330.48 |
| Transcripts, Reports, etc. | 265.45 |
| Automobile Expense | 571.20 |
| Bond Premium | 15.00 |
| Miscellaneous | 170.05 |
| | <hr/> |
| | \$17,897.68 |

Mr. Klemmedson makes the following comparison of assessment costs in certain Colorado counties:

The El Paso County assessor has about 25,000 schedules to handle, making the average cost per schedule amount to 72 cents per schedule. Weld County has a total of 26,000 schedules at a total office cost of \$23,000 or 88 cents per schedule. The cost per schedule for other typical counties

is as follows: Yuma, \$.34; Washington, \$.84; Moffat, \$1.12; Jackson, \$2.40. It is probably not fair to compare counties on the basis of the cost per schedule for other factors must be taken into consideration. The high cost per schedule in Jackson County is due to the fact that the assessor or a deputy makes an actual count of all the livestock in the county, which results in a much fairer assessment and justifies the additional cost.¹

When the personal property assessment lists are added to the real estate assessment lists and the aggregate considered in relation to the assessor's office costs (as was done in the Colorado study) we find that the per unit list cost in Pima County is \$0.76 and is \$1.29 in Santa Cruz County. These latter figures compare very favorably with those of Colorado counties.

From appearances it seems to the author that the taxpayers of Pima County are getting a fairer assessment of their property than the taxpayers of most other counties due to the elaborate system that has been followed. The system used for the land site is known as the Zangerle-Cleveland variation of the Somers system. The valuation engineer, Mr. Gorm Loftfield, has developed his own system for assessing the buildings on the property which has an

1. Klemmedson, G. S., "Saving the Taxpayers' Money," Colorado Agricultural College Experiment Station Bulletin, October 1, 1931, pp. 14-17. In a letter to the author dated April 1936 Professor Klemmedson advises that the list of schedules includes without classification all real and personal property assessed.

objective inventory basis interpreted in the light of actual sales and transfers in which the consideration is definitely known. This combined system involves the making of engineers' maps and the fixing thereon of a unit front foot value on every piece of property in definite relation to the key lot. The value of each lot is then figured with this unit figure from tables which consider the relation that various depths have on value.¹

It has been called to the author's attention, by Mr. Loftfield, that Pima County is the only county in Arizona which has this scientific compilation of assessed valuation. It is fair to allow a greater cost for a more accurate and thorough assessment, as Klemmedson has conceded in the case of Jackson County, Colorado (see page 35), yet we find that Pima County costs are less than those of Santa Cruz County and compare very favorably with the Colorado costs noted above. It is obvious that the relative cost of operating an assessor's office for a small number of lists or schedules is much greater than the per list cost of a larger assessor's office as found in the larger counties.²

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1. Mr. John A. Zangerle is county Auditor of Cleveland, Ohio, where a thorough study has been made of the assessing problem.
 2. In connection with the cost of operating an assessor's office it is interesting to note Bradshaw's quotation from the Revised Statutes of Missouri of 1919, Secs. 12,762, 12,816, and 13,124. From W. L. Bradshaw, "The Missouri County Court," University of

SCHEDULE 2

BOARD OF SUPERVISORS COSTS OF PIMA AND SANTA CRUZ COUNTIES,
IN THE FISCAL YEAR 1934-1935, AND THE PROBABLE COSTS
IF THESE COUNTIES SHOULD CONSOLIDATE

| Cost Item | 1934-1935 Costs | | | Costs under Consoli- dation |
|------------------|--------------------|----------------------|--------------------|-----------------------------------|
| | Pima County | Santa Cruz County | Total | |
| Salaries: | | | | |
| Chairman | \$ 1,440.00 | \$ 1,170.00 | \$ 2,610.00 | \$ 1,500.00 |
| Members | 2,340.00 | 1,980.00 | 4,320.00 | 2,400.00 |
| Clerk | 2,400.00 | (1,620.00) | 4,320.00 | 2,400.00 |
| Extra Clerk | | (300.00) | | |
| Comptroller | 3,580.00 | | 3,580.00 | 3,580.00 |
| Bookkeeper | 1,800.00 | | 1,800.00 | 1,800.00 |
| Stenographer | 1,500.00 | | 1,500.00 | 3,000.00 |
| Assessment Rolls | 1,183.00 | | 1,183.00 | 1,383.00 |
| Office Expense, | | | | |
| Jury Lists and | | | | |
| Bond Premiums | 1,861.15 | 643.68 | 2,504.83 | 1,880.15 |
| Publishing | 2,010.51 | 296.82 | 2,307.33 | 2,010.51 |
| Traveling | 1,007.49 | 265.00 | 1,272.49 | 1,757.49 |
| Total | \$19,122.15 | \$ 6,275.50 | \$25,397.65 | \$21,711.15 |

Missouri Studies, Vol. VI, No. 2, April 1931, p. 103.

"The compensation of the assessor is fixed by law. He receives twenty-five cents each for each of the first 3,000 assessment lists and twenty cents for each additional list. In addition he receives three cents for each entry in the personal assessment book. . . . He also receives a fee "in like amounts as for the assessment of other taxes" for each state income tax return made out by his office. The law authorizes an assessor to appoint as many deputies as may be necessary, to be paid by him out of the fees of the office."

From my observation, it appears that such a system would certainly reduce the cost of operating the assessors' offices in Arizona counties, but it is not conducive to a thorough and accurate job of assessment. It is enough to pay, however, for the work of the assessor as such work is usually done.

The Board of Supervisors is the directorate of the county and since its executive administration could be extended considerably, the addition of more territory merely enlarges the figures with which it deals. So long as the territory remains homogeneous the same policy may be followed and this department then offers the possibility of saving in executive salaries.

SCHEDULE 3

COURT HOUSE EXPENSE COSTS OF PIMA AND SANTA CRUZ COUNTIES, IN THE FISCAL YEAR 1934-1935, AND THE PROBABLE COSTS IF THESE COUNTIES SHOULD CONSOLIDATE

| Cost Item | 1934-1935 Costs | | | Costs under Consolidation |
|-----------------------|--------------------|--------------------|--------------------|---------------------------|
| | Pima County | Santa Cruz County | Total | |
| Salaries: | | | | |
| Vacations | \$ 371.59 | \$ | \$ 371.59 | \$ 371.59 |
| Engineer | 1,710.00 | | 1,710.00 | 1,710.00 |
| Janitors | 3,540.00 | 1,500.00 | 5,040.00 | 3,540.00 |
| Watchmen | 1,320.00 | | 1,320.00 | 1,320.00 |
| Gardener | 1,140.00 | | 1,140.00 | 1,140.00 |
| Fuel | 842.44 | 390.00 | 1,232.44 | 842.44 |
| Water and Ice | 1,676.22 | 108.13 | 1,784.35 | 1,676.22 |
| Lights, Gas and Power | 2,209.31 | 215.09 | 2,424.40 | 2,209.31 |
| Maintenance | 2,948.19 | 565.27 | 3,513.46 | 2,948.19 |
| Total | \$15,757.75 | \$ 2,778.49 | \$18,536.24 | \$15,757.75 |

The Court House in Nogales will be eliminated and thus the upkeep on same represents a complete saving.

SCHEDULE 4

COUNTY ATTORNEY COSTS OF PIMA AND SANTA CRUZ COUNTIES,
IN THE FISCAL YEAR 1934-1935, AND THE PROBABLE
COSTS IF THESE COUNTIES SHOULD CONSOLIDATE

| Cost Item | 1934-1935 Costs | | | Costs under Consoli- dation |
|-----------------|-----------------|----------------------|-------------|-----------------------------------|
| | Pima County | Santa Cruz County | Total | |
| Salaries: | | | | |
| Attorney | \$ 3,000.00 | \$ 2,500.00 | \$ 5,500.00 | \$ 3,000.00 |
| Chief Deputy | 2,160.00 | 600.00 | 2,760.00 | 2,160.00 |
| Deputies | 3,615.00 | | 3,615.00 | 4,215.00 |
| Office Supplies | 687.45 | 216.32 | 903.77 | 807.45 |
| Bond Premiums | 57.00 | 21.15 | 78.15 | 76.00 |
| Criminal Cases | 375.83 | | 375.83 | 375.83 |
| Travel | 329.70 | | 329.70 | 479.70 |
| Total | \$10,224.98 | \$ 3,337.47 | \$13,562.45 | \$11,113.98 |

With an effort to practice efficiency the County Attorney of Pima County can handle the extra work with the addition of the part-time deputy in Nogales.

SCHEDULE 5

ELECTIONS COSTS OF PIMA AND SANTA CRUZ COUNTIES, IN
THE FISCAL YEAR 1934-1935, AND THE PROBABLE
COSTS IF THESE COUNTIES SHOULD CONSOLIDATE

| Cost Item | 1934-1935 Costs | | | Probable Costs under Consoli- dation |
|------------------------------------------|--------------------|----------------------|--------------------|-----------------------------------------------|
| | Pima County | Santa Cruz County | Total | |
| Registration | | | | |
| Supplies and Expense | | \$ 371.05 | | |
| Election Offi- cers Per Diem | | | | |
| Printing Elec- tion Supplies, etc. | | 116.96 | | |
| Postage, Drayage, Express, etc. | | 36.02 | | |
| (Undistributed) | \$18,896.35 | | \$19,420.38 | \$19,420.38 |
| Total | \$18,896.35 | \$ 524.03 | \$19,420.38 | \$19,420.38 |

Election costs will remain the same in the consolida-
tion though a reorganization can effect savings here by fol-
lowing the suggestion of having an election every four years
instead of the present system requiring one every other year.

SCHEDULE 6

SUPERIOR COURT CLERK COSTS OF PIMA AND SANTA CRUZ COUNTIES,
IN THE FISCAL YEAR 1934-1935, AND THE PROBABLE COSTS
IF THESE COUNTIES SHOULD CONSOLIDATE

| Cost Item | 1934-1935 Costs | | | Probable Costs under Consoli- dation |
|-------------------|--------------------|----------------------|--------------------|-----------------------------------------------|
| | Pima County | Santa Cruz County | Total | |
| Salaries: | | | | |
| Clerk | \$ 2,700.00 | \$ 2,250.00 | \$ 4,950.00 | \$ 2,700.00 |
| Chief Deputy | 1,800.00 | 600.00 | 2,400.00 | 2,400.00 |
| Deputies | 6,120.00 | | 6,120.00 | 6,120.00 |
| Office Supplies | 1,161.59 | 500.45 | 1,662.04 | 1,277.74 |
| Bond Premiums | 277.50 | 95.17 | 372.67 | 277.50 |
| Record Books | 188.70 | | 188.70 | 207.57 |
| Ajo Court Expense | 118.20 | | 118.20 | 118.20 |
| Total | \$12,365.99 | \$ 3,445.62 | \$15,811.61 | \$13,101.01 |

The Superior Court clerk will be able to absorb the additional work with the help of the Santa Cruz chief deputy continuing as at present.

SCHEDULE 7

SUPERIOR COURT JUDGE COSTS OF PIMA AND SANTA CRUZ COUNTIES,
IN THE FISCAL YEAR 1934-1935, AND THE PROBABLE
COSTS IF THESE COUNTIES SHOULD CONSOLIDATE

| Cost Item | 1934-1935 Costs | | | Probable Costs under Consoli- dation |
|------------------------------------|--------------------|----------------------|--------------------|-----------------------------------------------|
| | Pima County | Santa Cruz County | Total | |
| Salaries: | | | | |
| Judge | \$ 2,483.12 | \$ 2,000.00 | \$ 4,483.12 | \$2,485.00 |
| Reporter | 2,220.00 | 1,200.00 | 3,420.00 | 2,220.00 |
| Interpreter | 1,575.00 | 1,200.00 | 2,775.00 | 1,575.00 |
| Bailiff | 1,757.50 | 4.00 | 1,761.50 | 1,757.00 |
| Probation Of- ficer | 3,410.00 | | 3,410.00 | 3,410.00 |
| Stenographer | 720.00 | | 720.00 | 720.00 |
| Bond Premiums | 55.50 | 21.15 | 76.65 | 55.50 |
| Office Expense | 883.78 | 398.23 | 1,282.01 | 972.15 |
| Civil and Crim- inal Cases | 1,336.20 | 460.00 | 1,796.20 | 1,796.20 |
| Jurors and Wit- ness Fees | 8,448.77 | 1,143.65 | 9,592.42 | 9,592.42 |
| Travel Expense-- Probation | 641.66 | | 641.66 | 641.66 |
| Visiting Judges --Ajo Court | 835.90 | | 835.90 | 835.90 |
| Visiting Judges --Nogales Court | | | | 835.90 |
| Total | \$24,367.43 | \$ 6,427.03 | \$30,794.46 | \$26,896.73 |

Competent authorities feel that the Superior Court Judge will probably be able to handle the little added burden.

SCHEDULE 8

HEALTH-GENERAL EXPENSE COSTS OF PIMA AND SANTA CRUZ COUNTIES,
IN THE FISCAL YEAR 1934-1935, AND THE PROBABLE
COSTS IF THESE COUNTIES SHOULD CONSOLIDATE

| Cost Item | 1934-1935 Costs | | | Probable Costs under Consoli- dation |
|----------------------------------|--------------------|----------------------|--------------------|-----------------------------------------------|
| | Pima County | Santa Cruz County | Total | |
| Salaries: | | | | |
| Physician | \$ 3,799.98 | \$ 1,200.00 | \$ 4,999.98 | \$ 3,799.98 |
| Assistant Physicians (Ajo) | 2,040.00 | | 2,040.00 | 3,240.00 |
| Ambulance | 1,463.60 | | 1,463.60 | 1,463.60 |
| Drugs | 5,140.26 | | 5,140.26 | 5,140.26 |
| Bond Premiums | 47.50 | 15.80 | 63.36 | 63.36 |
| Office Supplies | 577.50 | 68.23 | 645.73 | 577.50 |
| Hospital Service | 52,853.50 | 3,087.51 | 55,941.01 | 55,941.01 |
| Investigation | 44.50 | 35.00 | 79.50 | 79.50 |
| Post Mortem-- X-Rays | 2,151.10 | | 2,151.10 | 2,151.10 |
| Total | \$68,117.94 | \$ 4,406.60 | \$72,524.54 | \$72,456.31 |

The county health expenses will not show any savings, though the services available to the residents of Santa Cruz County will be greatly improved by the consolidation.

SCHEDULE 9

COUNTY HOSPITAL COSTS OF PIMA AND SANTA CRUZ COUNTIES,
IN THE FISCAL YEAR 1934-1935, AND THE PROBABLE
COSTS IF THESE COUNTIES SHOULD CONSOLIDATE

| Cost Item | 1934-1935 Costs | | | Probable Costs under Consoli- dation |
|------------------------------|----------------------|----------------------|----------------------|-----------------------------------------------|
| | Pima County | Santa Cruz County | Total | |
| Salaries: | | | | |
| Superintendent: | \$ 2,100.00: | | \$ 2,100.00: | \$ 2,100.00 |
| Nurses, Cooks | : 6,281.42: | | : 6,281.42: | 6,281.42 |
| Office Expense | : 222.73: | | : 222.73: | 222.73 |
| Drugs and Pre- scriptions | : 1,316.57: | No | : 1,316.57: | 1,316.57 |
| Auto Expense | : 323.19: | County | : 323.19: | 323.19 |
| Fuel | : 907.64: | | : 907.64: | 907.64 |
| Maintenance | : 3,243.83: | Hospital | : 3,243.83: | 3,243.83 |
| Water | : 1,069.10: | | : 1,069.10: | 1,069.10 |
| Gas, Lights and Power | : 388.09: | | : 388.09: | 388.09 |
| Laundry | : 2,042.01: | | : 2,042.01: | 2,042.01 |
| Provisions | : 7,602.79: | | : 7,602.79: | 7,602.79 |
| Total | :\$25,497.37: | | :\$25,497.37: | \$25,497.37 |

SCHEDULE 10

HEALTH-WELFARE BOARD--INDIGENT EXPENSE COSTS OF PIMA AND SANTA CRUZ COUNTIES IN THE FISCAL YEAR 1934-1935, AND THE PROBABLE COSTS IF THESE COUNTIES SHOULD CONSOLIDATE

| Cost Item | 1934-1935 Costs | | | Probable Costs under Consolidation |
|-------------------------------|--------------------|--------------------|--------------------|------------------------------------|
| | Pima County | Santa Cruz County | Total | |
| Transportation | \$ 189.00 | | \$ 189.00 | \$ 189.00 |
| Sustenance | 13,741.95 | | 13,741.95 | 13,741.95 |
| Emergency Relief | 3,239.83 | | 3,239.83 | 3,239.83 |
| Juvenile Care | 6,324.41 | | 6,324.41 | 6,324.41 |
| Cash to Indigents | 4,870.00 | | 4,870.00 | 4,870.00 |
| Burial | 4,052.00 | \$ 1,306.42 | 5,358.42 | 5,358.42 |
| Office Expense | 4,800.00 | | 4,800.00 | 4,800.00 |
| Truck Repairs (Undistributed) | 18.46 | | 18.46 | 18.46 |
| | | 7,588.87 | 7,588.87 | 7,588.87 |
| Total | \$37,235.65 | \$ 8,895.29 | \$46,130.94 | \$46,130.94 |

SCHEDULE 11

HEALTH--PREVENTATIVE COSTS OF PIMA AND SANTA CRUZ COUNTIES,
IN THE FISCAL YEAR 1934-1935, AND THE PROBABLE
COSTS IF THESE COUNTIES SHOULD CONSOLIDATE

| Cost Item | 1934-1935 Costs | | | Probable Costs under Consoli- dation |
|-----------------------|--------------------|----------------------|--------------------|-----------------------------------------------|
| | Pima County | Santa Cruz County | Total | |
| Salaries: | | | | |
| Health Officer | \$ 249.96 | | \$ 249.96 | \$ 249.96 |
| First Nurse | 700.00 | \$ 600.00 | 1,300.00 | 1,300.00 |
| Second " | 669.24 | | 669.24 | 669.24 |
| Junior " | 397.24 | | 397.24 | 397.24 |
| Sanitary Inspector | 1,383.75 | | 1,383.75 | 1,383.75 |
| Clerk | 1,440.00 | | 1,440.00 | 1,440.00 |
| Travel | 1,850.00 | 99.60 | 1,949.60 | 1,949.60 |
| Office Expense | 396.63 | | 396.63 | 396.63 |
| Burying Animals | 10.45 | | 10.45 | 10.45 |
| Miscellaneous | 147.38 | 239.50 | 386.88 | 386.88 |
| Total | \$ 7,244.65 | \$ 939.10 | \$ 8,183.75 | \$ 8,183.75 |

SCHEDULE 12

HEALTH--CLINIC COSTS OF PIMA AND SANTA CRUZ COUNTIES,
IN THE FISCAL YEAR 1934-1935, AND THE PROBABLE
COSTS IF THESE COUNTIES SHOULD CONSOLIDATE

| Cost Item | 1934-1935 Costs | | | Probable Costs under Consoli- dation |
|----------------|------------------|----------------------|------------------|-----------------------------------------------|
| | Pima County | Santa Cruz County | Total | |
| Office Expense | \$ 331.96 | | \$ 331.96 | \$ 331.96 |
| Drugs | 139.72 | | 139.72 | 139.72 |
| Total | \$ 471.68 | | \$ 471.68 | \$ 471.68 |

SCHEDULE 13

JUSTICE COURT COSTS OF PIMA AND SANTA CRUZ COUNTIES,
IN THE FISCAL YEAR 1934-1935, AND THE PROBABLE
COSTS IF THESE COUNTIES SHOULD CONSOLIDATE

| Cost Item | 1934-1935 Costs | | | Probable Costs under Consoli- dation |
|------------------------|--------------------|----------------------|--------------------|-----------------------------------------------|
| | Pima County | Santa Cruz County | Total | |
| Salaries: | | | | |
| Justice | \$ 3,900.00 | \$ 2,200.00 | \$ 6,100.00 | \$ 6,100.00 |
| Constable | 3,300.00 | 300.00 | 3,600.00 | 3,600.00 |
| Clerks | 5,835.00 | | 5,835.00 | 5,835.00 |
| Rent | | 120.00 | 120.00 | 120.00 |
| Jurors' Fees | 996.00 | 18.00 | 1,014.00 | 1,014.00 |
| Office Expense | 767.46 | 80.47 | 847.93 | 847.93 |
| Constable Ex- pense | 900.00 | | 900.00 | 900.00 |
| Bond Premiums | 124.50 | 42.30 | 166.80 | 166.80 |
| Total | \$15,822.96 | \$2,760.77 | \$18,583.73 | \$18,583.73 |

The Justice Court costs will show no saving, since a justice court must be maintained in the same local communities.

SCHEDULE 14

SCHOOL SUPERINTENDENT COSTS OF PIMA AND SANTA CRUZ COUNTIES, IN THE FISCAL YEAR 1934-1935, AND THE PROBABLE COSTS IF THESE COUNTIES SHOULD CONSOLIDATE

| Cost Item | 1934-1935 Costs | | | Probable Costs under Consolidation |
|----------------|--------------------|--------------------|--------------------|------------------------------------|
| | Pima County | Santa Cruz County | Total | |
| Salaries: | | | | |
| Superintendent | \$ 2,400.00 | \$ 2,000.00 | \$ 4,400.00 | \$ 2,400.00 |
| Chief Deputy | 2,100.00 | 1,200.00 | 3,300.00 | 3,300.00 |
| Deputies | 2,340.00 | | 2,340.00 | 2,340.00 |
| Bond Premiums | 19.00 | 5.29 | 24.29 | 24.29 |
| Office Expense | 533.92 | 203.82 | 737.74 | 669.51 |
| Travel | 596.71 | 246.85 | 843.56 | 843.56 |
| Total | \$ 7,989.63 | \$ 3,655.96 | \$11,645.59 | \$ 9,577.36 |

The school superintendent's office of Pima County can handle the extra burden with the addition of one full-time deputy to the staff.

SCHEDULE 15

MISCELLANEOUS COSTS OF PIMA AND SANTA CRUZ COUNTIES,
IN THE FISCAL YEAR 1934-1935, AND THE PROBABLE
COSTS IF THESE COUNTIES SHOULD CONSOLIDATE

| Cost Item | 1934-1935 Costs | | | Probable Costs under Consoli- dation |
|---------------------------|--------------------|----------------------|--------------------|-----------------------------------------------|
| | Pima County | Santa Cruz County | Total | |
| Farm Adviser | \$ 3,699.96 | | \$ 3,699.96 | \$ 3,699.96 |
| Sunshine Climate Club | 8,000.00 | | 8,000.00 | 8,000.00 |
| Chamber of Com- merce: | | | | |
| Tucson | 3,700.00 | | 3,700.00 | 3,700.00 |
| Nogales | | \$ 600.00 | 600.00 | 600.00 |
| Ajo | 300.00 | | 300.00 | 300.00 |
| Fair Rodeo | 500.00 | | 500.00 | 500.00 |
| Recreational Area | 3,204.59 | | 3,204.59 | 3,204.59 |
| Insurance | 1,500.00 | 1,532.61 | 3,032.61 | 1,500.00 |
| Industrial In- surance | 1,799.91 | 678.28 | 2,478.19 | 2,478.19 |
| Miscellaneous | 862.02 | 368.33 | 1,230.35 | 1,230.35 |
| C.W.A. | 75.45 | | 75.45 | 75.45 |
| Airport | | 300.00 | 300.00 | 300.00 |
| Total | \$23,641.93 | \$3,479.22 | \$27,121.15 | \$25,588.54 |

SCHEDULE 16

OLD AGE PENSIONS COSTS OF PIMA AND SANTA CRUZ COUNTIES,
IN THE FISCAL YEAR 1934-1935, AND THE PROBABLE
COSTS IF THESE COUNTIES SHOULD CONSOLIDATE

| Cost Item | 1934-1935 Costs | | | Probable Costs under Consoli- dation |
|-----------|-----------------|----------------------|-------------|-----------------------------------------------|
| | Pima County | Santa Cruz County | Total | |
| Payroll | \$20,263.93 | \$ 2,649.30 | \$22,913.23 | \$22,913.23 |
| Total | \$20,263.93 | \$ 2,649.30 | \$22,913.23 | \$22,913.23 |

SCHEDULE 17

NEW CONSTRUCTION AND EQUIPMENT COSTS OF PIMA AND SANTA CRUZ
COUNTIES, IN FISCAL YEAR 1934-1935, AND PROBABLE
COSTS IF THESE COUNTIES SHOULD CONSOLIDATE

| Cost Item | 1934-1935 Costs | | | Probable Costs under Consoli- dation |
|----------------------------|-----------------|----------------------|-----------|-----------------------------------------------|
| | Pima County | Santa Cruz County | Total | |
| Supervisors | \$ 106.25 | | \$ 106.25 | \$ 106.25 |
| County Attorney | 149.22 | | 149.22 | 149.22 |
| Clerk of the Court | 283.65 | | 283.65 | 283.65 |
| School Superin- tendent | 99.50 | | 99.50 | 99.50 |
| Recorder | 150.00 | | 150.00 | 150.00 |
| Sheriff | 33.88 | | 33.88 | 33.88 |
| (Undistributed) | | \$ 104.42 | 104.42 | - - |
| Total | \$ 822.50 | \$ 104.42 | \$ 926.92 | \$ 822.50 |

SCHEDULE 18

RECORDER COSTS OF PIMA AND SANTA CRUZ COUNTIES,
IN FISCAL YEAR 1934-1935, AND PROBABLE COSTS
IF THESE COUNTIES SHOULD CONSOLIDATE

| Cost Item | 1934-1935 Costs | | | Probable |
|----------------|-----------------|----------------------|-------------|-----------------------------------|
| | Pima County | Santa Cruz County | Total | Costs under Consoli- dation |
| Salaries: | | | | |
| Recorder | \$ 2,700.00 | \$ 2,250.00 | \$ 4,950.00 | \$ 2,700.00 |
| Chief Deputy | 2,100.00 | 1,200.00 | 3,300.00 | 2,100.00 |
| Deputies | 10,564.00 | | 10,564.00 | 10,564.00 |
| Office Expense | 2,385.86 | 202.85 | 2,588.71 | 2,520.48 |
| Bond Premiums | 108.30 | 31.73 | 140.03 | 108.30 |
| Total | \$17,858.16 | \$ 3,684.58 | \$21,542.74 | \$17,992.78 |

This office can be consolidated and operated with but little additional expense.

SCHEDULE 19

SHERIFF COSTS OF PIMA AND SANTA CRUZ COUNTIES, IN
FISCAL YEAR 1934-1935, AND PROBABLE COSTS
IF THESE COUNTIES SHOULD CONSOLIDATE

| Cost Item | 1934-1935 Costs | | | Probable Costs under Consoli- dation |
|-------------------------------|--------------------|----------------------|--------------------|-----------------------------------------------|
| | Pima County | Santa Cruz County | Total | |
| Salaries: | | | | |
| Sheriff | \$ 4,000.00 | \$ 3,600.00 | \$ 7,600.00 | \$ 4,000.00 |
| Chief Deputy | 2,400.00 | 1,800.00 | 4,200.00 | 2,400.00 |
| Deputies | 23,439.95 | 7,980.75 | 31,420.70 | 27,087.95 |
| Office Expense | 2,075.09 | 409.41 | 2,484.50 | 2,275.00 |
| Auto Expense | 4,406.98 | 2,079.30 | 6,486.28 | 5,846.98 |
| Prisoners' Meals | 10,502.41 | 1,302.92 | 11,805.33 | 11,492.69 |
| Supplies and Miscellaneous | (38¢ per day) | (50¢ per day) | | |
| Traveling | 1,395.80 | | 1,395.80 | 1,545.80 |
| Ammunition | 293.06 | | 293.06 | 353.06 |
| Nogales and Ajo: | | | | |
| Jail Rent | 339.80 | | 339.80 | 679.60 |
| Jail Supplies | 2,579.50 | | 2,579.50 | 2,699.50 |
| Bond Premiums | 266.00 | 95.18 | 361.18 | 318.00 |
| Undistributed | | 573.69 | 573.69 | |
| Total | \$50,698.59 | \$17,841.25 | \$69,539.84 | \$58,698.58 |

The sheriffs' offices show possibilities of considerable savings, and could show a much greater saving under a plan of reorganization than by consolidation.

SCHEDULE 20

TREASURER COSTS OF PIMA AND SANTA CRUZ COUNTIES, IN
FISCAL YEAR 1934-1935, AND PROBABLE COSTS IF
THESE COUNTIES SHOULD CONSOLIDATE

| Cost Item | 1934-1935 Costs | | | Probable Costs under Consoli- dation |
|----------------|--------------------|----------------------|--------------------|-----------------------------------------------|
| | Pima County | Santa Cruz County | Total | |
| Salaries: | | | | |
| Treasurer | \$ 3,000.00 | \$ 2,250.00 | \$ 5,250.00 | \$ 3,000.00 |
| Chief Deputy | 2,100.00 | 1,200.00 | 3,300.00 | 2,100.00 |
| Deputies | 5,693.50 | 300.00 | 5,993.50 | 6,893.50 |
| Office Expense | 1,408.40 | 378.59 | 1,786.99 | 1,718.76 |
| Bond Premiums | 984.22 | 348.97 | 1,333.19 | 1,004.22 |
| Total | \$13,186.12 | \$ 4,477.56 | \$17,663.68 | \$14,716.48 |

This office can also be consolidated and operated with but little additional expense.

SCHEDULE 21

HIGHWAY DEPARTMENT COSTS OF PIMA AND SANTA CRUZ COUNTIES,
IN THE FISCAL YEAR 1934-1935, AND THE PROBABLE
COSTS IF THESE COUNTIES SHOULD CONSOLIDATE

| Cost Item | 1934-1935 Costs | | | Probable Costs under Consoli- dation |
|------------------------------------------------------------------------------------|---------------------|----------------------|---------------------|-----------------------------------------------|
| | Pima County | Santa Cruz County | Total | |
| Engineer's Sal- ary | \$ 2,983.34 | | \$ 2,983.34 | \$ 2,983.34 |
| Labor | 78,075.89 | | 78,075.89 | 88,575.89 |
| Flood Control | 85.85 | | 85.85 | 85.85 |
| Office and Engineering | 551.51 | | 551.51 | 551.51 |
| Industrial In- surance | 3,804.91 | | 3,804.91 | 4,277.41 |
| Maintenance | 41,686.82 | | 41,686.82 | 43,705.46 |
| Undistributed (Road Supplies, Eqpt., Main- tenance, Sur- veying, etc.) | | \$20,000.00 | \$20,000.00 | |
| Total | \$127,188.32 | \$20,000.00 | \$147,188.32 | \$140,179.46 |

The Highway Department not only represents a considerable saving in dollars and cents but would be offering a greater service as well.

We summarize the foregoing statistics, and find the possible savings in the several county offices would be as follows: (in addition to other advantages such as more efficient assessment, better health service facilities and the ability of a larger unit to attract better officials)

SCHEDULE 22

THE 1934-1935 FISCAL YEAR COSTS OF COUNTY OFFICES IN
PIMA AND SANTA CRUZ COUNTIES COMPARED WITH THE
PROBABLE COSTS UNDER CONSOLIDATION

| Office | 1934-35 Costs | Estimated Costs | Estimated Savings |
|--------------------------------------------------------------|---------------------|---------------------|----------------------|
| Assessor | \$ 26,014.92 | \$ 23,436.89 | \$ 2,578.03 |
| Board of Supervisors | 25,397.65 | 21,711.15 | 3,686.50 |
| Court House Expense | 18,536.24 | 15,757.75 | 2,778.49 |
| County Attorney | 13,562.45 | 11,113.98 | 2,448.47 |
| Elections | 19,420.38 | 19,420.38 | 0.00 |
| Superior Court Clerk | 15,811.61 | 13,101.01 | 2,710.00 |
| Superior Court Judge | 30,794.46 | 26,896.73 | 3,897.73 |
| Health - General Expense | 72,524.54 | 72,456.31 | 68.23 |
| County Hospital | 25,497.37 | 25,497.37 | 0.00 |
| Health - Welfare Board | 46,130.94 | 46,130.94 | 0.00 |
| Health - Preventative | 8,183.75 | 8,183.75 | 0.00 |
| Health - Clinic | 471.68 | 471.68 | 0.00 |
| Justice Court - Tucson, Ajo, Patagonia, Nogales and Ruby: | | | |
| School Superintendent | 18,583.73 | 18,583.73 | 0.00 |
| Miscellaneous | 11,645.59 | 9,577.36 | 2,068.23 |
| Old Age Pensions | 27,121.15 | 25,588.54 | 1,532.61 |
| New Construction and Equipment | 22,913.23 | 22,913.23 | 0.00 |
| Recorder | 926.92 | 822.50 | 104.42 |
| Sheriff | 21,542.74 | 17,992.78 | 3,549.96 |
| Treasurer | 69,539.84 | 58,698.58 | 10,841.26 |
| Highway Department | 17,663.68 | 14,716.48 | 2,947.20 |
| | 147,188.32 | 140,179.46 | 7,008.86 |
| Total | \$639,471.19 | \$593,250.60 | \$ 46,220.59 |

The final question relates to the distribution of the gain to be derived from such consolidation. Will the residents of the two counties share equally, or will those of Pima County merely assume a heavier burden under the new arrangement? We believe the present study suggests the conclusion that when a small, heavily obligated county consolidates with a larger, more wealthy county, with relatively less debt, the benefit is greatly on the side of the small and poor county, with a relatively small loss to the taxpayers of the larger and wealthier county. We might say that the marginal utility of the gain to Santa Cruz County is probably greater than the marginal disutility of the loss to Pima County.

From these studies the author has also come to the conclusion that if two relatively poor and small counties of approximately the same circumstances consolidate, the gains will accrue to the former residents and taxpayers of both counties, inversely to their exact former relative financial position.

We have indicated above that the saving of \$46,220.59 represents about 14% of the 1934 county tax levy for the general fund of both counties, and about 4% of the total county levies, including school, and interest and redemption fund. The revised county tax bill would have been approximately \$2.013 per \$100 of taxable wealth, bringing a saving

of \$1.004 to Santa Cruz County taxpayers, or 33% of their county tax bill. To Pima County taxpayers, whose county tax rate in 1934 was \$1.987, the tax bill would probably have increased somewhat. Certainly there would be no particular financial gain to Pima County through such consolidation.

A discussion of the possible non-financial gains to Pima County must of necessity be general. Somewhat more business would be done in Tucson because of its enlarged influence as the county seat and the added number of visitors from Nogales. Yet the gain depends to a considerable extent upon the economic future of Santa Cruz County. A happier international situation, as between Mexico and the United States, might give the Santa Cruz addition increased value to Pima County, but a contrary trend is perhaps equally to be considered.¹

1. One additional point should perhaps be considered here. While the study of the consolidation of Santa Cruz County with Pima is demanded by the amount of public discussion of this proposal, and while such consolidation would have definite advantages, it is probable that if a general scheme of county consolidation were undertaken by the state as a whole, Santa Cruz might well be united with Cochise rather than Pima. As will be indicated in Chapter III, however, the reasons for such grouping lie more with the need to balance the new county units in area, population and wealth, than with any greater economic benefit to Santa Cruz County to be gained by consolidation with Cochise. See specifically footnote, page 83.

CHAPTER III

COUNTY CONSOLIDATION IN ARIZONA

Any plan of consolidation which would reduce costs per capita or per dollar of taxable wealth in Santa Cruz County should undoubtedly have the same effect on costs in other counties in like circumstances if the latter were to be consolidated with wealthier neighboring counties. This chapter will deal with such suggested consolidations in Arizona.

The problem of the need for county consolidation in Arizona is peculiar in view of the fact that in this State, in an area of 113,956 square miles or 73,931,840 acres, there are now only fourteen counties, whereas in most states where county consolidation has been studied there are many more county units in no greater, and often a much smaller, area. The counties in Arizona, however, like those in most other states, were formed with very little relation to any plan or criteria. Professor John R. Murdock of the Arizona State Teachers College at Tempe, describes the situation:

Since most of the modern provisions of city government have originated and developed in this century, and since it is only the twentieth century that Phoenix and Tucson have been large enough to be called cities, naturally they are quite modern. Conversely, since most of the coun-

ties of Arizona were made in the last century, while Arizona was still a territory, Arizona's counties have the old fashioned arrangement which prevailed in other states at the time counties were organized. We must remember that good roads in Arizona have come very recently, and that will help us to understand why Arizona's counties are more old-fashioned than Arizona's cities.¹

Murdock seems to feel that it is now time to modernize our counties, for he continues:

There has been a rather determined effort on the part of certain taxpayers to reduce the number of counties in Arizona from fourteen to five. This movement is not confined to Arizona, but some other states are thinking of the same. . . . The feeling is strong and logical, that most of our states have too many counties at the present time. Now that Arizona has such fine highways, and the new automobiles make such good time in traveling, the need of having county government within ten or a dozen miles of each citizen no longer exists. John Citizen can now travel across the state in about the same time that it took him a few years ago to reach the county seat, perhaps only fifteen or twenty miles away.²

Good roads and automobiles have made it desirable for Arizona to do away with small counties, by consolidation,

. . . the county government should be housed in a good courthouse, or county seat building, and the county public buildings should be ample and substantial, all these, together with cost of the salaries of county officials, make a heavy burden upon a relatively small population. For that reason, we believe that the counties in the future will be larger rather than smaller.³

Arizona counties grew up naturally. The Territory of

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1. J. R. Murdock, A Manual for Teachers on The Constitution of Arizona, p. 55.
 2. Ibid., p. 56.
 3. J. R. Murdock, The Constitution of Arizona, p. 132.

Arizona was created from the Territory of New Mexico by the Organic Act of 1863. The First Territorial Legislature in 1864 divided the territory into the four original counties of Mohave, Yavapai, Yuma and Pima. Subsequently, counties were created as shown by the following table:¹

| Created | County | Territory from | Created by | Principal Economic Pursuit |
|---------|------------|----------------|----------------|----------------------------|
| 1871 | Maricopa | Yavapai | 6th Ter. Leg. | Commerce, Agriculture |
| 1873 | Maricopa | Pima | 7th Ter. Leg. | |
| 1875 | Pinal | Pima | 8th Ter. Leg. | Stock Raising, " |
| | | Yavapai | | and Mining |
| | | Maricopa | | |
| 1877 | Pinal | Pima | 9th Ter. Leg. | |
| 1879 | Apache | Yavapai | 10th Ter. Leg. | Stock Raising, " |
| 1881 | Cochise | Pima | 11th Ter. Leg. | " and Mining |
| 1881 | Gila | Maricopa | 11th Ter. Leg. | " " " |
| | | Pinal | | |
| 1881 | Graham | Pima | 10th Ter. Leg. | " and Agriculture |
| | | Apache | | |
| 1891 | Coconino | Yavapai | 16th Ter. Leg. | " and Lumber |
| 1895 | Navajo | Apache | 18th Ter. Leg. | " |
| 1899 | Santa Cruz | Pima | 20th Ter. Leg. | " Mining and Agriculture |
| 1909 | Greenlee | Graham | 25th Ter. Leg. | " Mining and Agriculture |
| 1928 | Maricopa | Pima | Court Order | |

The original four counties of the Territory of Arizona in 1864 had thus grown to fourteen before Arizona had become a state in 1912. We note that:

As settlers came into different parts of the Territory, or as mining camps sprang up, the people in those sections felt the need of local government, so from time to time they asked that a new county be formed by the Legislature.²

1. Arizona Yearbook, 1930, pp. 169-326.

2. Murdock, The Constitution of Arizona, p. 130.

It seems to be true that in the early days the formation of counties in the State of Arizona was merely one phase of the political activity for the control of state government. Such documentary evidence as we have suggests that there was a definite relationship between the formation of counties and the fight between important interests in the territory for the control of the Legislature.¹

It might be noted that several of the smaller counties of the state are formed about the important mining centers-- such counties as Greenlee, Gila, Cochise, Santa Cruz and

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1. "Mr. Allen's attitude toward his activities may be best shown from the following story. At one time a bill was presented to the Legislature to divide Yavapai County into two counties. Mr. Allen, anxious to have Clarkdale and Jerome comprise a county by themselves, was active in trying to get the bill accepted. Five senators, under the leadership of a prominent senator from Southern Arizona, pledged themselves to support the bill. Later, the night before the bill was brought to a vote in the Senate, Mr. Allen was seen pacing the sidewalk in front of the Adams Hotel pouring out invectives upon all senators in general and these five gentlemen in particular. A friend stopped and inquired the reason for Allen's being so upset. "Oh," said Mr. Allen, "the ----s aren't honest. I gave them \$1,000 apiece for their votes and now, with the bill coming up tomorrow, they've raised their price on me!" He later invaded the office of Mr. Eugene S. Ives, President of the House, and, in the presence of witnesses, offered him \$20,000 if he would get the bill through that branch of the Legislature. Ives laughed at him and saw to it that the bill was never brought to the vote in the House." Quoted from V. S. Griffith, Jr., State Regulation of Railroad and Electric Rates in Arizona to 1925, Masters Thesis, University of Arizona, 1931, pp. 18-20.

Mohave--and it is certainly probable that the formation of such counties gave the mining interests increased representation in the Legislature. On the other hand, there is some indication that the formation of Cochise County arose from the fact that the fees for mining claim notices and other county services in the new mining area about Tombstone were furnishing an important income for Tucson in the old Pima County and that the individuals about Tombstone merely wanted that prize.

Much in the way of constructive legislation was done in the session of 1881. On hand, with a well-stuffed "sack", was a large representation of the citizenship of Tombstone, who, after a couple of failures, managed to secure the creation of the County of Cochise. This was fought by Tucson, which had been doing very well indeed as a supply point for the new mining camp, wherefrom had been coming as high as 100 mining claim notices a day for recording and wherefrom the sheriff had been drawing fees said to have run up to \$25,000 a year. With much less trouble were created the counties of Graham and Gila, with seats of government, respectively, at Safford and Globe.¹

Attending on the session (12th Legislature) were a couple of prosperous-looking gentlemen who, on the evidence of an old resident of Tombstone, left the camp with \$26,000 in greenbacks for which they were to render no accounting. The investment was a good one--for the mining companies. Yet the price was high, for President C. P. Huntington of the Southern Pacific, a few years later, publicly set the price of an Arizona Legislature at around \$4,000.²

It would appear, therefore, that when we say the coun-

1. J. H. McClintock, Arizona, The Youngest State, p. 332.

2. Ibid., p. 333.

ties of Arizona just grew, we should keep our tongue in our cheek, for there seems to be evidence that there was the motive of obtaining more representatives and senators in the State Legislature from that district by dividing counties. Another influence was the desire of towns for the county seat. St. Johns and Holbrook both wanted to be the county seat of Apache County. Finally the county was bisected and Navajo County was formed, both towns were made county seats, and the people of these towns as well as the rest of the people in these counties, were then forced to support this economic folly. St. Johns in 1930 had 1,384 of an Apache County population of 6,033 (exclusive of Indian population) while Holbrook has a population of 1,115 of a Navajo County population of 11,076 (exclusive of Indian population). Economic factors could not have been considered in the face of such overwhelming evidence to the contrary.

It appears, too, that mining communities seem to have cut themselves away from the other sections of the county to form separate counties of their own, where the interests of the mines and the mining population would not be checked or handicapped or otherwise controlled by agricultural or grazing interests, but could be promoted by the additional representation in the State Legislature so gained.

Regardless of the reasons for dividing the counties,

the facts are that the counties are now not formed in relation to assessed wealth, population and with any consideration of relative cost of government to the income of the people now in the several counties.

To the criteria usually used as a yardstick to determine the need for consolidation in most other states must be added circumstances peculiar to Arizona and a few other western states.

Arizona, with a population in 1930 of 435,573, is still rather sparsely settled and the people are scattered over a large area of 113,956 square miles, having a population density of 3.8 people to the square mile.

Sixty-five percent of the total area of Arizona is included in national parks, national forests, indian reservations and military reservations under the control of federal bureaus. It must be noted that this area under federal control, apparently, is relatively a much smaller source of revenue than if the land were under private ownership. There is some revenue received, however, since considerable land of these parks, forests and reservations is leased by the government to the stockmen, whose cattle and sheep are assessed by the county, and the counties in which forests are situated also receive federal funds from the

forest service, under the 25% fund.¹

Important among the reasons which make county consolidation desirable is the tendency of mine tax revenue to fluctuate considerably and rapidly, inability to meet tax payments due to depressed markets and changing economic conditions generally.² Counties of Arizona were apparently formed with more attention to political expediency than to economic principles, and they now show definite economic weaknesses. By the standards already established in the first chapter the counties of Arizona show deficiencies which an economic county should not have. We shall now note the defects in the Arizona counties which are of importance to an economic analysis.

Assessed Wealth Factor

In Arizona, there are nine counties whose assessed wealth in 1934 is less than \$20,000,000 at the present price levels.

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1. United States Revised Statutes, "Enabling Act of June 20, 1910," provides for the distribution among states of 25% of the national forest revenues, which in turn is distributed by the several states to their respective counties in which are located the national forests.
 2. It is said that some taxpayers are buying cars or otherwise spending money that should ordinarily be used to pay delinquent taxes because of the hope that payment can finally be avoided in part or altogether. It may be assumed, however, that the major part of delinquent taxes is due to the economic situation which is temporary and perhaps permanent in the case of sub-marginal lands.

| | |
|------------|--------------|
| Santa Cruz | \$ 5,938,578 |
| Apache | 6,086,744 |
| Graham | 7,151,398 |
| Navajo | 8,135,961 |
| Greenlee | 10,428,698 |
| Mohave | 11,718,073 |
| Coconino | 14,849,455 |
| Gila | 16,446,506 |
| Yuma | 18,083,223 |

As we have demonstrated in the first chapter, most of the authorities have decided that counties with less than \$20,000,000 in assessed wealth are not in a position to provide complete quality county governmental service without an unreasonable tax burden. Quality county governmental service provides adequate care of the poor, the sick and the aged, as well as capable assessment, recording and court service. Only inadequate and undependable service is available to the residents of the struggling county with insufficient resources. This latter condition is the penalty of political maneuvering.

Per Capita Tax Burden Factor

In considering the per capita tax burden, Indians have been excluded since they pay no county tax either directly or indirectly through rent. (It is accepted here as a fact that practically the entire county tax is the general property tax.) There are a few Indians living off the reservations but this group is insignificant when the Arizona county per capita tax burden is compared with an average per capita

county tax burden of \$7.80 for all states.¹ Generally speaking, small counties have a high per capita county governmental cost. All of Arizona's counties have high per capita tax burdens when compared to the criteria standard of \$9 or \$10.

| <u>County</u> | <u>Per Capita Tax Burden</u> |
|---------------|------------------------------|
| Mohave | \$54.90 |
| Yuma | 28.65 |
| Apache | 28.51 |
| Pinal | 26.49 |
| Graham | 25.49 |
| Greenlee | 25.01 |
| Yavapai | 24.39 |
| Coconino | 22.44 |
| Navajo | 20.97 |
| Pima | 19.92 |
| Cochise | 18.59 |
| Santa Cruz | 18.58 |
| Maricopa | 16.74 |
| Gila | 16.12 |

The median is \$23.33; and the mean per capita burden is \$23.34 (statistical mean is \$22.15). Compared to the criteria of \$9 - \$10 established in the foregoing pages, the Arizona tax burden is excessively high on a per capita basis.

Per Capita Net Liability on the County
Bonded Indebtedness Factor

Related to the per capita tax burden is the per capita

1. Heckart and Klemmedson, "County Consolidation in Colorado," Colorado Agricultural College, Bulletin #406, December 1933, p. 11, quoting Federal and State Taxation, House Ways and Means Committee, Washington, D. C., 1933.

bonded indebtedness, which is:

| | |
|------------|----------|
| Yuma | \$205.92 |
| Maricopa | 157.27* |
| Pima | 114.53 |
| Santa Cruz | 110.56 |
| Coconino | 109.96 |
| Mohave | 91.80 |
| Pinal | 84.39 |
| Apache | 69.40 |
| Yavapai | 67.10 |
| Navajo | 62.37 |
| Gila | 46.38 |
| Graham | 42.65 |
| Greenlee | 31.86 |
| Cochise | 25.58 |

* Plus \$14,000,000 or approximately \$100.00 per capita liability in special district bonds which are not general obligation bonds but are noted here because the interest thereon is levied and collected as taxes. Quoting 12th Tax Commission Report, 1934, p. 18.

The median is \$80.00 and the mean is \$75.32.

Tax Rate Factor

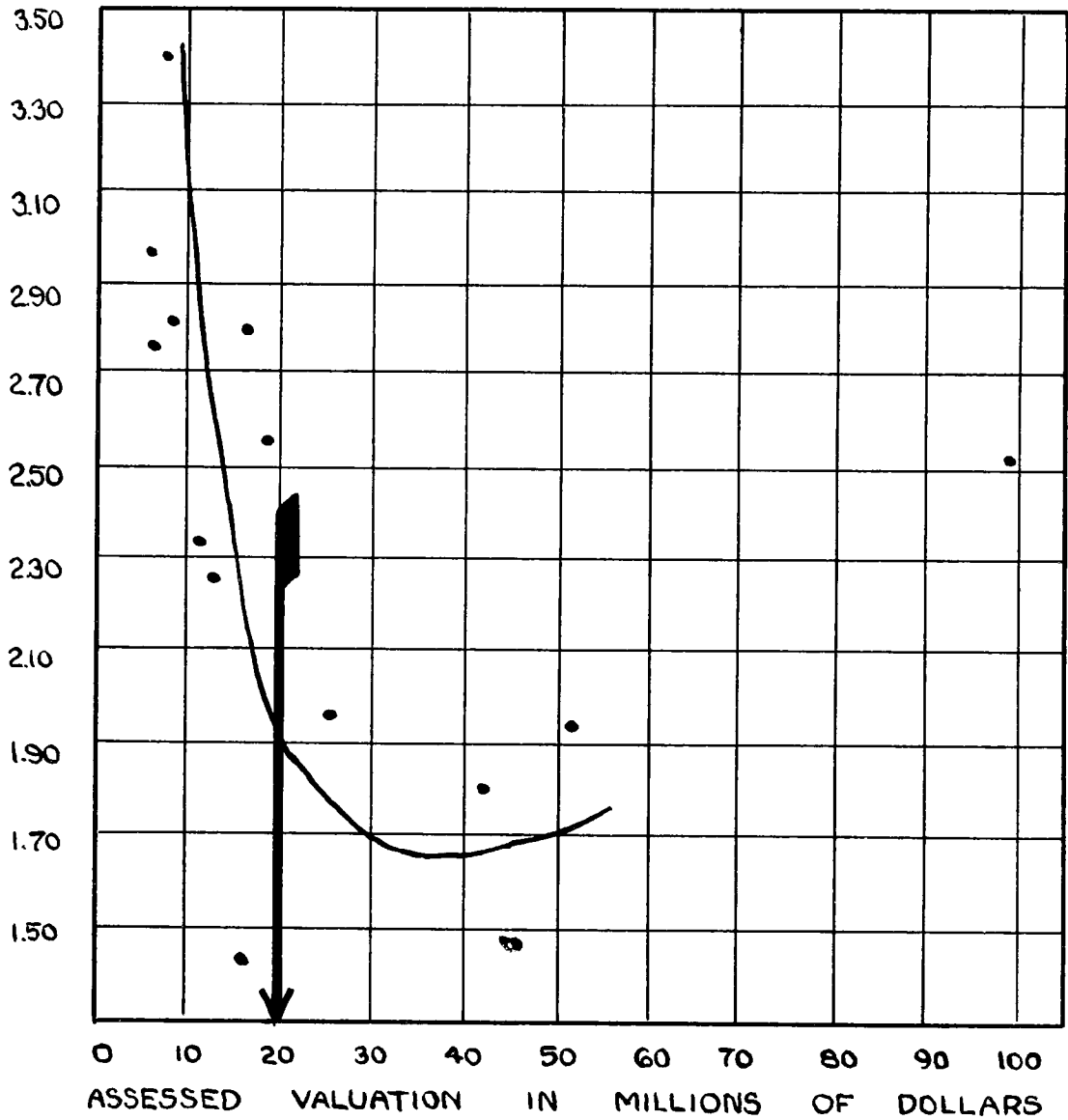
High tax rates indicate a lack of wealth in some counties and give a clew as to the ability to support essential governmental services.

County Tax Rates in Arizona, 1934
(Per \$100 assessed valuation)

| | |
|------------|--------|
| Graham | \$3.44 |
| Santa Cruz | 3.0171 |
| Navajo | 2.855 |
| Gila | 2.8423 |
| Apache | 2.81 |
| Yuma | 2.60 |
| Maricopa | 2.56 |
| Greenlee | 2.37 |
| Mohave | 2.3008 |
| Pinal | 2.00 |
| Pima | 1.987 |
| Cochise | 1.85 |
| Yavapai | 1.51 |
| Coconino | 1.4837 |

TAX RATES FOR COUNTY PURPOSES IN ARIZONA, 1934.

TAX RATE
IN DOLLARS PER \$100
ASSESSED VALUATION



The median is \$2.40; while the mean county tax rate is \$2.33. Generally, the county with the highest tax rate has the smaller assessed wealth, as is shown by the graph on the following page.

Tax Delinquency Factor

A high delinquency indicates a lack of ability to pay for the present county governmental services. The following tabulation shows the per cent tax delinquency and is a ratio of total tax delinquency of each county June 30, 1934, to the aggregate county taxes of 1929-1933 inclusive, of that county. (See Table F.)

| | |
|------------|-------|
| Yuma | 53.9% |
| Maricopa | 34.1 |
| Gila | 31.2* |
| Santa Cruz | 24.8 |
| Cochise | 24.5* |
| Navajo | 21.9 |
| Pima | 21.9* |
| Pinal | 21.3 |
| Greenlee | 20.3* |
| Apache | 19.1 |
| Graham | 16.4 |
| Mohave | 15.9 |
| Yavapai | 14.8 |
| Coconino | 10.4 |

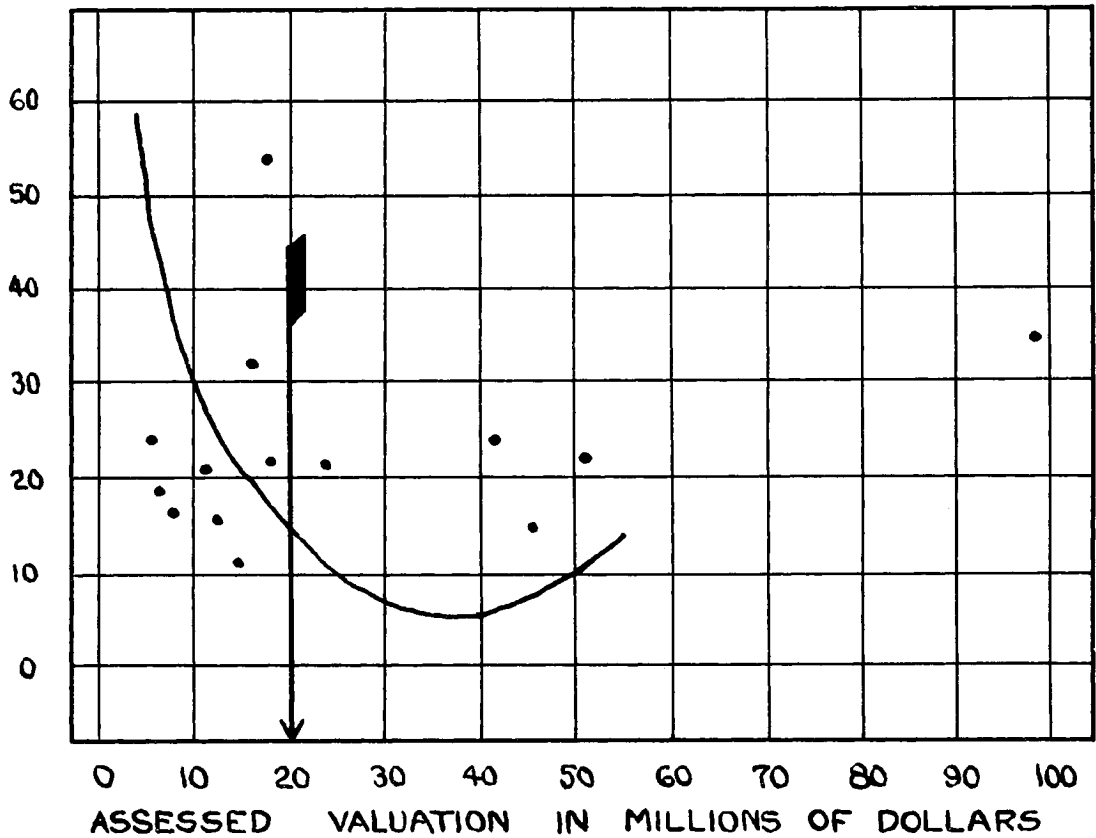
*Cochise, Greenlee and Pima Counties show an abnormal delinquency in this tabulation due to a technical condition which is due to the withholding of tax payments by their largest taxpayer, the Phelps Dodge Corporation, pending settlement of a court action over assessments. Gila County also shows a higher delinquency due to a similar condition, though the delinquent mining taxes do not account for such a large share of the delinquency as in other counties noted, for there is an otherwise high delinquency.

The median is 21.66%, and the mean is 21.07%. Generally,

TAX DELINQUENCY 1934

ARIZONA COUNTIES

PER CENT OF TAXES
UNCOLLECTED



the county with the smaller assessed valuation has the greater tax delinquency. The following graph appears to show this tendency.

Average Property Value Factor

The average per capita property value for Arizona in 1934 was \$910.51 (calculation excludes Indian population). Poor counties often have a high per capita wealth, and when this is true the merger will result in lowered taxes for the counties consolidating. Even in the case of counties with a low per capita wealth, the savings will often be such that the tax rate of the wealthier county will not be raised by consolidation. It is a general tendency that poor counties have a higher assessment rate than the wealthier counties and thus a lower per capita valuation may indicate even a lower actual wealth.

Assessments do not necessarily indicate actual wealth of the county. The Colorado report gives \$1,341.00 as the per capita wealth in 1931. The corresponding figure for Arizona in that year was \$1,549.10, and it may be safe to assume that three years later, the Arizona per capita wealth is still 15% greater than the Colorado figure. Such a guess is hazardous, however, since it assumes the same changes in assessments in that period in the counties of both states.

The per capita assessed valuation in Arizona in 1934

was:

| | |
|------------|-----------|
| Gila | \$ 567.12 |
| Santa Cruz | 615.84 |
| Maricopa | 654.65 |
| Navajo | 734.55 |
| Graham | 741.15 |
| Pima | 1,002.71 |
| Cochise | 1,005.54 |
| Apache | 1,008.90 |
| Greenlee | 1,055.42 |
| Yuma | 1,079.08 |
| Pinal | 1,324.84 |
| Coconino | 1,512.62 |
| Yavapai | 1,615.30 |
| Mohave | 2,386.08 |

The median county per capita wealth is approximately \$1,006.50 (statistically \$1,040). Our criterion in the first chapter establishes a per capita wealth of \$1,200-\$1,300 with a minimum of \$1,000.

Gila, Santa Cruz, Maricopa, Navajo and Graham counties are therefore weak in this factor, while Pima, Cochise, Apache, Greenlee and Yuma are only above the base minimum. Thus but four counties--Pinal, Coconino, Yavapai and Mohave--satisfy the criterion.

Population Factor

Greenlee and Santa Cruz Counties showed a large decrease in population between 1920 and 1930, of 36% and 24% respectively, while Cochise also lost 12% of its population; Graham and Mohave Counties remained relatively static. Nine of the fourteen Arizona counties have fewer than the 20,000 population which is generally agreed to be the smallest

size to enjoy economic benefits from county government and is set forth as the minimum in the population criterion in the first chapter. The Indian population is relatively tax-exempt. They are excluded in considering economic population, tax burden, etc. While they trade in the county areas, they should be considered, but not as though they were full taxpaying residents.

| <u>County</u> | <u>Population</u> | <u>Indian</u> | <u>1930 Population (Census)</u> |
|---------------|-------------------|---------------|---------------------------------|
| Mohave | 4,911 | 661 | 5,572 |
| Apache | 6,033 | 11,732 | 17,762 |
| Santa Cruz | 9,643 | 41 | 9,684 |
| Graham | 9,649 | 724 | 10,373 |
| Coconino | 9,817 | 4,247 | 14,064 |
| Greenlee | 9,881 | 5 | 9,886 |
| Navajo | 11,076 | 10,126 | 21,202 |
| Yuma | 16,758 | 1,058 | 17,816 |
| Pinal | 18,656 | 3,425 | 22,081 |

Considering the population factor, we find that Pinal and Yuma Counties are on the borderline. Mohave, Apache, Santa Cruz, Graham, Coconino, Greenlee, and Navajo Counties should be merged with contiguous counties due to small population. Apache, Navajo and Coconino Counties might not be considered in this group if there is definite evidence which shows that their Indian population are contributing enough to warrant counting them as revenue contributing residents.

Geographical and Topographical Factors

The rule that county boundary lines should follow impassable mountain ranges rather than surround them and the

rule that each part of the county should be accessible to the other parts without too great distance to the county seat has not always been observed in the formation of Arizona counties. Physical features must be considered in certain parts of Arizona. A few examples of topographical isolation are: The Strip, which is isolated by and lies to the north of the Grand Canyon, lies in both Mohave and Coconino Counties and is difficult to reach from the main portion or county seat of either county. Prior to the construction of the Boulder Dam Highway it should have been a part of Coconino County entirely; however, with the Boulder Dam Highway completed, it may remain partly in both counties, as at present. The Strip itself might advantageously be included entirely within one county. Coconino does not necessarily offer advantages, since it is necessary to traverse considerable Indian reservation and national forest land to reach the settlements and assessable land, but it does seem to be closest to the more densely settled part of this territory.

The Winkelman-Hayden area naturally lies in Pinal County instead of Gila County, with which it is politically allied at present. The Arivapa Valley in Graham County can be reached much easier from the town of Wilcox in Cochise County than is possible by crossing the Graham Mountains from the main part or Gila Valley section of Graham County.

There are undoubtedly other cases which illustrate this

factor--suffice to say here that in county consolidation in Arizona this is an important criterion.

Area Factor

Based on this criterion alone, as established in the first chapter, there are four counties which have an area definitely inadequate:

| | |
|------------|-----------------|
| Santa Cruz | 1,229 sq. miles |
| Greenlee | 1,878 |
| Graham | 4,630 |
| Gila | 4,699 |

There are two counties which may be considered border-line cases:

| | |
|---------|-----------------|
| Pinal | 5,380 sq. miles |
| Cochise | 6,170 |

In considering this criterion, it is important to note variations which may be made due to other factors, such as productivity and character of the land.

Productivity and Character of the Land Factor

The percentages of public land which is non-assessable in the Arizona counties are:

| | |
|------------|-----|
| Gila | 99% |
| Greenlee | 96 |
| Coconino | 90 |
| Graham | 87 |
| Navajo | 78 |
| Apache | 77 |
| Yavapai | 74 |
| Pinal | 69 |
| Santa Cruz | 63 |
| Cochise | 59 |
| Yuma | 58 |
| Maricopa | 55 |
| Pima | 52 |
| Mohave | 45 |

By analyzing the area of counties as given in Table G, and comparing with the discussion on Arizona county area weakness given on page 76 and the above percentage compilations, we find that Santa Cruz, Greenlee, Graham and Gila are further inadequate in area qualifications when based on the area criterion in conjunction with the Productivity and Character of the Land criterion. We also find that Apache, Cochise, Coconino, Navajo, Pinal, and Yavapai are similarly inadequate. While Maricopa, Mohave, Pima and Yuma all appear to have a sufficient area based upon above factors we feel that the desert character of much land in all but Maricopa County reduces the productivity of a great percentage of their area.

We may conclude then that the area of Arizona counties can be enormously increased before reach a maximum county area, inasmuch as the criterion sets an area of 10,000-30,000 square miles of assessable land as a desideratum.

Trade Area

A number of examples showing political county area not concurrent with the economic trade and natural social area can be given: Santa Cruz County residents trade in the greater Tucson area when desiring a greater variety than is offered in the local shops; likewise, the residents of Greenlee County trade in the town of Safford; people in Pinal County and the Globe area of Gila County go to Phoenix; those

in the Payson and Pine area of Gila County go to Prescott; while those in Apache County go to Holbrook.

While it may not be possible to adjust these areas, any county consolidation should consider these weak points.

Diversification Factor

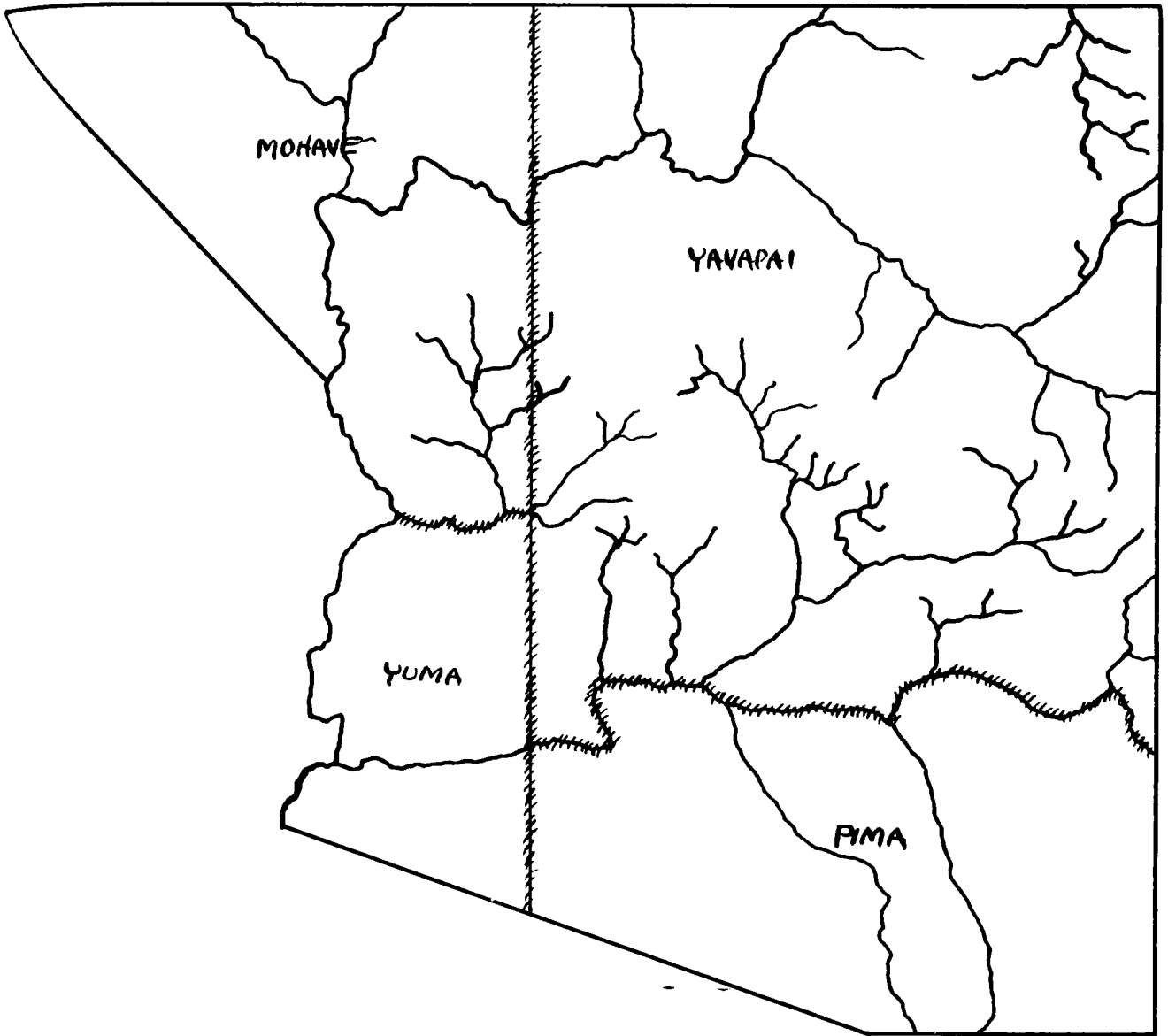
This criterion points to several counties which though once parts of a larger, more diversified area are now relatively single-industry counties. We find Greenlee, Gila and Santa Cruz Counties were formerly relatively more prosperous due to mining activity. These counties should be a part of contiguous counties that they might diversify their sources of major revenue.

Plan of County Consolidation in Arizona

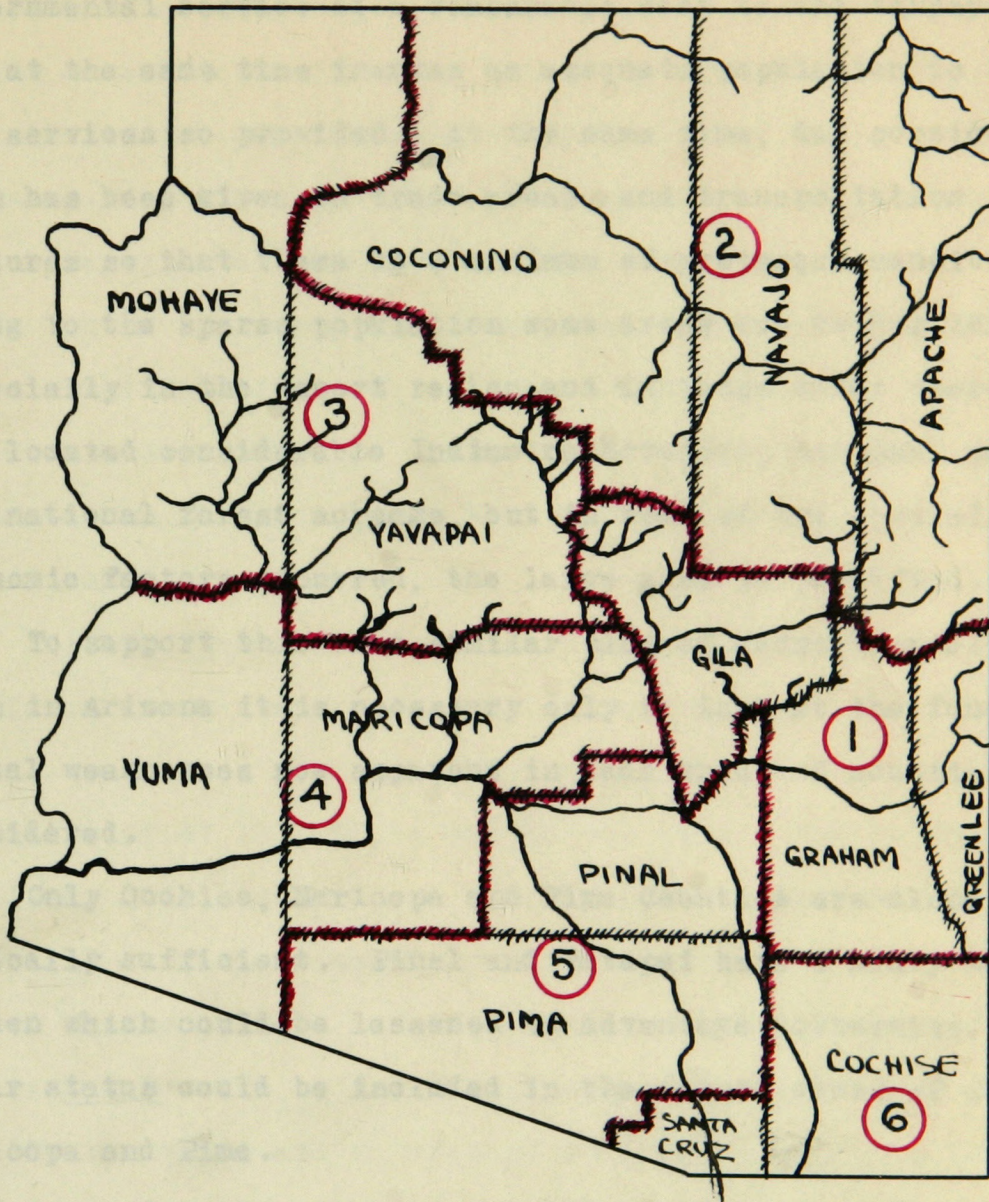
After making a study of general conditions in county finance and economic conditions and criticising the present state of the Arizona counties, it would hardly be appropriate to drop the subject without an attempt to develop a positive plan of general county consolidation in Arizona. This is done with full knowledge of the difficulty in obtaining a perfect solution to the problems presented above. With the general economic and financial needs of a county in mind the author has selected a general plan for grouping the counties of Arizona so as to tend to eliminate the deficiencies. In the discussion following several alternate consolidations are noted, but the general plan is to consolidate the counties as follows:

| <u>Counties Consolidated</u> | <u>Resultant Assessed Valuation</u> | <u>Resultant Population</u> |
|------------------------------|-------------------------------------|-----------------------------|
| 1. Gila, Graham & Greenlee | \$ 34,000,000 | 49,000 |
| 2. Apache, Navajo & Coconino | 28,000,000 | 27,000 |
| 3. Mohave & Yavapai | 57,000,000 | 33,000 |
| 4. Yuma & Maricopa | 114,000,000 | 164,000 |
| 5. Pinal & Pima | 74,000,000 | 69,000 |
| 6. Cochise & Santa Cruz | 47,000,000 | 50,000 |

This plan, if adopted, would provide the State of Arizona with six economically sound counties. This plan provides counties with adequate wealth to provide quality county



MAP SHOWING THE FOUR ORIGINAL ARIZONA COUNTIES.



MAP SHOWING PRESENT COUNTIES AND SUGGESTED CONSOLIDATION
OF PRESENT ARIZONA COUNTIES.

governmental service at a reasonable cost to the taxpayer, and at the same time insures an adequate population to use the services so provided. At the same time, due consideration has been given to trade areas, and transportation features so that there is a minimum of grotesque conditions. Owing to the sparse population some areas are rather large, especially in the desert region and in those areas wherein are located considerable Indian reservation, national park and national forest acreage, but in view of the special economic factors incurred, the large area is justified.

To support this or a similar plan of county consolidation in Arizona it is necessary only to look at the fundamental weaknesses now apparent in each group of counties now considered.

Only Cochise, Maricopa and Pima Counties are alone economically sufficient. Pinal and Yavapai have a heavy tax burden which could be lessened to advantage; otherwise, their status could be included in the former group of Cochise, Maricopa and Pima.

Santa Cruz County with a 9,643 population, a \$5,938,578 assessed valuation, a \$110.56 per capita bonded indebtedness, a \$3.0171 tax rate, a 24.8% tax delinquency, and an area of only 1,229 square miles, of which 63% is non-assessable public land, should be consolidated with Pima County or with Cochise County. In the general plan Santa Cruz County

was cast with Cochise because the author feels that Pinal should consolidate with Pima and it is desired to balance the size of the consolidated counties so far as is possible and this is one case where a bad condition could be remedied by merging either way.¹ These comments are made because the author feels that a general reorganization of the state would be "too good to be true" while several mergers are ultimately doomed to come about if state centralization is to be thwarted and local democratic government wisely maintained.

Neither Graham nor Greenlee County can justify its continued independent existence on economic grounds. Graham County weaknesses are: a 9,649 population, an assessed valuation of \$7,151,398, a \$25.49 per capita tax burden, a \$3.44 tax rate, and an area of only 4,630 square miles, of which 87% is non-assessable public land; while Greenlee County must explain: a 9,881 population, a \$10,426,698 assessed valuation, a \$25.01 per capita tax burden, a \$2.3008 tax rate, and an area of only 1,878 square miles, of which 96% is non-assessable public land. These counties

1. In an interview with Mr. H. R. Sisk, the publisher of the Nogales Herald, on March 3, 1936, the author was told that the Santa Cruz population wants consolidation, but with Cochise County rather than Pima. The feeling is that Cochise County offers greater potential development and thus greater assessable wealth. The author feels that this statement is based upon the past rather than in perspective of the future. The mining wealth of Cochise County was great and will be important again, but Pima County has a more diversified wealth, which will grow too.

would probably find it profitable to reunite and consolidate with Gila or Cochise Counties as well.

Gila County has a high tax rate of \$2.8423 and a tax delinquency of 31.2%, both of which indicate that it is not an economic unit. Its big weakness is an area of 4,699 square miles, of which 99% is non-assessable public land. This county might find it advantageous to either join with Graham and Greenlee Counties, in which case the towns of Hayden and Winkelman should be turned over to Pinal County where they naturally should be, or Gila might consolidate as a whole with Pinal County, though this would not be as natural an area, due to the fact that the connecting mountainous road is not as easily traveled as the highway to Graham County.

If Apache and Navajo Counties reunite, they would still be short of the necessary qualifications needed to provide quality county governmental service at a reasonable cost. Their population of 6,033 and 11,076 respectively with Indian population excluded, and their assessed valuation of \$6,086,-744 and \$8,135,961 are too small since their large Indian population in addition to these figures must be discounted. Their tax burden is \$28.51 and \$20.97 respectively, while their bonded indebtedness is \$69.40 and \$62.37, their tax rate is \$2.81 and \$2.855 and their tax delinquency is 19.1% and 21.9%. Their area is 11,379 square miles and 9,899,

which is 77% and 78% non-assessable public land, respectively. Coconino County is in a similar situation; though its tax rate is low (probably due to a relatively large revenue from national forest funds), its population is only 9,817, its assessed valuation is \$14,849,455, its per capita tax burden is \$22.44, its bonded indebtedness is \$109.96, and its area of 18,623 square miles is 90% non-assessable public land. A tri-county consolidation would tend to remedy this situation, to the profit of all.

In the northwest corner of the state, the county of Mohave seems to need assistance due to an extra heavy tax burden of \$54.90 explained in part by the fact that the railroad represents a major part of the assessed valuation of \$11,718,073 (\$6,392,638) and the population is small, being 4,911. The bonded indebtedness is \$91.80 and the tax rate is \$2.3008. A consolidation with Yavapai would remedy this situation.

Yavapai County itself, with a \$24.39 per capita tax burden, a \$67.10 per capita net liability on the county bonded indebtedness, and an area of 8,150 square miles, of which 74% is non-assessable public land, is definitely a borderline county which can be economically self-sufficient without consolidation.

In the southwest, we find Yuma County with a tax burden of \$28.65, a tax rate of \$2.60, a tax delinquency of 53.9%,

and a bonded indebtedness of \$205.92, all of which indicate that relief must be obtained in spite of a fair sized population of 16,758, an assessed valuation of \$18,083,223, and an area of 9,987 square miles, which is only 58% non-assessable public land, though much of the area is arid desert. A merger with Maricopa may help, though the situation in Maricopa County with a bonded indebtedness of approximately \$257.27, a tax rate of \$2.56 and a tax delinquency of 34.1% is not too good. The only thing that occurs to the author is that a complete county reorganization should be effected to pull this county from its lethargy. The statistics do not record what one would expect to find in a wealthy, honestly and well-managed county.

Pinal County is a borderline case but its population could benefit from consolidation. This county shows prospects of development, but could benefit more promptly by consolidation with Pima County, since these prospects may develop very slowly or fail to materialize as is hoped. Its tax burden is \$26.49, its bonded indebtedness is \$84.39 and its tax delinquency is 21.3%.

Pima and Cochise Counties appear to be economically sound and financially well managed. They both have too high a tax delinquency, 21.9% and 24.5% respectively, but the technical condition of unpaid Phelps Dodge taxes now withheld pending outcome of the present litigation accounts for

the major part of this item. Fundamentally, on the basis of the foregoing criteria and on the basis of sound administration, they, with Yavapai County, seem, from statistics on costs of government, to be the outstanding counties in the state which do not need consolidation nor any major correction of economic conditions.

CHAPTER IV

OPPOSITION TO COUNTY CONSOLIDATION

Any useful study of county consolidation must consider the practical difficulties in the way of attaining such re-adjustments.

Franklin D. Roosevelt, campaigning in the Middle West in 1932, called for permanent relief of agriculture through national leadership in reduction and equitable distribution of taxes. He declared himself in favor of

a national movement to reorganize local government in the direction of eliminating some of the tax burden which now bears so heavily on farms. There are too many taxing districts, too many local units of government, too many unnecessary offices and functions. The governmental underbrush which has sprouted for years should be cleared away.¹

But this statement brought no such salvos of applause as greeted his attack upon the federal department of agriculture and the Federal Farm Board. Reforms in the federal government are more popular than elimination of local units and offices. Charity, perhaps, should begin at home, but not in the elimination of political offices!

In practice, the process of relocation of county boundary lines is very much like the reversing of a long series of court decisions. Local

1. New York Times, September 15, 1932.

tradition and a gradual crystallizing of the interests of local politicians militate powerfully to maintain the status quo. And, yet, for all that, the shifting of boundary lines must inevitably come if local governments are to meet their obligations.¹

In spite of the fact that there are many advantages to county consolidation the proposition is not without disadvantages and much opposition would attend any effort to bring about actual consolidations of county governmental units. These advantages, disadvantages and opposition to county consolidation are noted in this chapter. The advantages have been formulated under the heading: Factors Which Aid Consolidation, while the disadvantages and obstacles have been listed under the heading: Hindrances Which Beseet Consolidation.

Factors Which Aid Consolidation

(1) Cash Saving: The actual cash saving effected by consolidation needs no further comment than Benjamin Franklin's maxim: "A penny saved is a penny earned," and the proof of savings offered in this thesis.

(2) Tax Rate Reduction: The reduction of the tax rate is a natural sequence to savings effected through reduced costs due to consolidation. In many cases this will mean relief to those over-burdened from excessive taxation.

1. H. S. Gilbertson, The County, p. 153.

(3) Equalization of County Tax Burden: In some counties where taxable wealth and population are so small that they can hardly exist the condition will be altered when they become a part of an economic unit and thus obtain relief.

(4) Provides for Specialization: Larger governmental units permit the economic employment of better trained and more efficient officers and specialized technicians capable of giving better services; and provide for greater division of labor and elimination of much overhead expense with the resulting economies to the taxpayer.

(5) Expands Governmental Services: Complete essential governmental service provided due to the support of the larger economic unit. It permits services which the small county is unable to provide, and increases the quality of governmental service.

(6) Diversification Factor: The merged county is less apt to feel economic stress as soon as the small county dependent on one type of economic activity.

(7) Welfare of the State: The county is an administrative sub-division of the state. It is therefore in the interests of the state as a whole that its sub-divisions be economical, efficient and prosperous units.

The difficulty in proving these points lies in the fact that though there are 3,071 counties in the United States only two consolidations of two and of three counties

each have been completed. The results seem to indicate that the people residing in these counties have definitely benefitted from these consolidations. While a study reveals but little data available and the following quotations from Bromage are fragmentary, they indicate the opinion that the consolidations are successful and definitely beneficial.

The annexation of James County to Hamilton County, Tennessee, was effected in 1919. It was the union of a poor rural county and a relatively affluent urban neighbor. . . . The act required James County officers to transfer their records, funds, and other property to like officers in Hamilton. Title to all James County property passed to Hamilton and the indebtedness of James became an obligation of Hamilton. When James County consolidated with Hamilton, the former had about two miles of paved highway and its rural schools operated only three or four months of the year. Heavy taxation prohibited industrial expansion. The people of James County did the wise thing in tying their interests to those of Hamilton. Taxes were reduced, more roads were built, and the school year was lengthened. The old courthouse became a public school. The consolidated county of 548 square miles had, in 1920, 115,954 inhabitants. The population rose to 159,497 by 1930.

The statement has been repeated that this consolidation cut the costs of county government to the people of James County approximately 50 per cent. This estimate is based upon the striking reduction made in the net county tax rate of James County. In the last two years before the consolidation, the tax rate was respectively \$2.01 and \$1.95 on every hundred dollars of valuation. The first two levies after consolidation were \$1.02 and \$1.05. The sudden drop cannot be attributed entirely to the benefits of consolidation. "This remarkable decrease of nearly a dollar in the tax rate," in the opinion of Wylie Kilpatrick after a careful check, "is explained largely by a state-wide revaluation of property that reduced tax rates throughout Tennessee." He estimates that

the true saving to people in James County attributable to consolidation was approximately thirty cents on the net county tax rate. His estimate is a saving of about 15 per cent rather than the 50 per cent so frequently cited. Benefits of the merger cannot be judged by tax rates alone, but also by the increased services to that region.

After the annexation of James to Hamilton County, proposals for realignments of other Tennessee areas sprang up within a few years. Residents of the neighboring county of Meigs were impressed with the advantages obtained by James County in scrapping its separate government. They sought to join the Hamilton bandwagon. At the time that Meigs desired annexation, its local tax rate was approximately \$4.00 on the hundred, whereas the enlarged county had a rate of \$1.40. However, Meigs failed to obtain legislative authorization.¹

In 1929 the Georgia legislature provided that Campbell might consolidate with Fulton County, by a two-thirds majority of those voting on the question in Campbell and a majority vote in Fulton, the property of Campbell to become the property of Fulton, and the indebtedness of Campbell an obligation of Fulton. Two years later, Milton County was permitted to merge with Fulton by a similar process. Favorable action was taken and a tri-county consolidation became effective on January 1, 1932.

In this manner, two sparsely settled counties were merged with Fulton, which was largely co-terminous with the city of Atlanta. Fulton had, in 1930, a population of 318,587 and a land area of 193 square miles. Campbell had 9,903 residents and an area of 211 square miles. Milton contained only 6,730 inhabitants to its 137 square miles of area. Thus the consolidated county of Fulton attained an area of approximately 541 square miles and a population of over 335,000 people. Fulton became one of the largest counties of the state.

1. A. W. Bromage, American County Government, p. 217. A similar report is found in Wylie Kilpatrick, Contemporary County Government, pp. 320-322.

This consolidation reduced Georgia's counties from 161 to 159 in number and increased their average area from about 365 to 369 square miles.

This tri-county may duplicate the experience of the consolidated county of Hamilton in Tennessee. Campbell and Milton Counties had tax rates which were considerably higher than the rate in the old county of Fulton. These onerous taxes in Campbell and Milton were consumed by two sets of county officials that were superfluous. "It is said that Fulton has not been obliged to increase appreciably her official personnel in order to care for the business of Campbell and Milton."* Additional taxation which the new county of Fulton derives from the old counties of Campbell and Milton permits better and greater services in the annexed regions. Campbell and Milton receive in return for the loss of their identities public health and welfare work, paved roads, improved schools, and many advantages previously unknown. Even though no great reduction in costs results, the taxes will bring greater returns to the payers. They will go for modern functional services rather than for unnecessary officers. The consolidations in Tennessee and Georgia are similar in nature and should produce analogous results. Both stand as precedents for the attachment of poor counties to prosperous urban neighbors. Far away as the comprehensive regrouping of rural counties may be, these are signs of the times.¹

Hindrances Which Beset Consolidation

A. Disadvantages:

(1) Small Units Give Democratic Government:

Government organized into small units is more democratic and closer to the people than the larger, more centralized forms.

1. Bromage, op. cit., pp. 219-220.

* From A. Park Orville, "Progress in County Consolidation," a paper read at the Virginia Institute of Public Affairs, July, 1932.

(2) Increased Transportation Costs: Increases the cost of traveling to the new court house for a certain number of people. While this argument is advanced as a disadvantage, close analysis reveals that it is not as important as it at first sounds since much business can be transacted by mail.

(3) Variations in Indebtedness, etc.: Variations in taxable wealth, general and school tax rates, public indebtedness and public improvements are often considerable and thus there will be inequalities thrust upon certain taxpayers.

(4) Loss of Representation in the State Legislature: In some instances the representative of a specific locality may be lost due to the resultant minority vote of that section, after consolidation.

(5) Loss of State Funds: Loss of possible state aid or relief to uneconomic units may be suffered by those who would thus have some of their bills paid by the funds of the state as a whole.

(6) Loss of County Building Investment: Loss of benefit from present investment in county buildings may be incurred if buildings are not utilized.

B. Opposition:

(1) No Guarantee: Consolidation brings no guarantee of efficiency or a reduction of costs. Estimates

are the result of a survey. The prognosis may turn out to be in error due to factors which were overlooked or unpredictable. A thorough survey should reveal fairly accurately, however, what may be expected.

(2) Local Pride: Intense local pride and hopes for the future growth of the weak county into a strong governmental unit are emotional and difficult opposition to thwart, but cash savings will cause some to forget local pride!

(3) Prejudice and Inertia: Prejudice or inertia against any change in the established order of things.

(4) Fractionalism: Counties vary greatly in their populations and problems. Agricultural counties consider government intensely personal and regard such movements as consolidation as attempts to foist urban ideas upon rural communities and so disrupt carefully built political fences. Rival towns will not give up the county seat.

(5) Legal Barriers: Consolidation requires legislative action which is beset with pitfalls protecting the local office-holders. Article XII of the Constitution of Arizona established the county and indicates the officials which each county shall have.¹

1. Murdock, The Constitution of Arizona, p. 129.

(6) Present Office Holders: Present county office holders fear any change might leave them out of the revamped organization and stand arrayed against consolidation.

(7) Loss of Representation in the State Legislature: The number of rural legislators would probably be reduced due to sparse rural population which is also a disadvantage and thus a source of opposition on the part of those who would feel the loss.

(8) Partisan Politics: The county is the substructure of partisan political parties and as such is a difficult unit to disturb from the point of view of practical politics.

(9) Office Holder Aspirants: Many are "building bridges" in the hope of some day holding office. Establishing connections, political ties, etc., by the aspirants to office is a long, tedious job and there are many in various stages of promoting themselves who will oppose consolidation in the hope of saving their efforts.

(10) Vested Interests: There are many who have influence with present office holders who will not wish to have these connections broken.

(11) Doomed County Seat Merchants: Merchants in the merged county seat stand to lose trade by the removal

of county headquarters to another community. It is questionable how much this would amount to in actuality. It looms big in potentiality, but if the town is a trading center now it will probably remain as such.

(12) Court House Lawyers: Lawyers, etc., who make a select circle around every court house and whose interests would be effected, would oppose any change.

(13) Small Town Newspapers: Legal advertising loss causes them to consider self interest before the interests of the community. These small town newspapers can make some rather ridiculous statements about county consolidation.¹

(14) Relatives and Friends of Those with Threatened Interests: The people who might lose directly through a merging of one or more counties into another county are many and represent important opposition to any plan of consolidation, but they are insignificant when compared to the legions whom they can control. The author understands that there are two, three and four hundred votes controlled by certain individuals whose word is law in certain communities in Arizona. This is important opposition.

1. Heckart and Klemmedson, County Consolidation in Colorado, pp. 52-53.

CHAPTER V

SUMMARY

It has been predicted that the counties of Arizona in the future will be larger rather than smaller.¹ This study has indicated that the above statement is based upon sound economic principles and characteristics such as have been given in the first chapter of this thesis.

In the chapter comparing Pima and Santa Cruz Counties we have definitely shown that such a consolidation would be of definite benefit to the people of Santa Cruz County, even though arrangements were made for them to assume their entire present financial obligations. The case of county consolidation has been completely discussed and no further comment is necessary.

Chapter III gives a general plan for reorganizing the counties of the state. The ideal would be to eliminate county boundary lines entirely and then reorganize counties on the basis of geographical and economic trade areas and create the counties whose areas will be fixed in a rough ratio to the highways and to the transportation facilities

1. Murdock, The Constitution of Arizona, p. 132.

of this era, and of such size in wealth and population as to justify the services and the expenditures of a separate governmental unit.

The results of actual consolidations, where tried, are said to show an actual saving of 15% to the taxpayer.¹ The saving is dependent to a large extent upon the conditions peculiar to those communities and the relative costs of the several governmental units before and after consolidation. It is interesting to note that both examples of consolidation have been the merger of poor counties with wealthy progressive neighbors. The consolidation advocated in this study of Pima and Santa Cruz Counties is of this class.

The advantages and disadvantages or opposition of consolidation have been outlined in the fourth chapter. While there may be other factors the author believes the main questions have been noted. In the case where a poor county merges with a wealthy county, it is evident that the residents of the poor county benefit to the greater extent but the people in the more prosperous county benefit also because of the ability of the larger governmental unit to engage the services of more competent administrators. This is true until you consider the largest units which are of sufficient size to engage such services without further

1. Footnote, Chapter IV, p. 92.

enlargement. Where the consolidating counties are of similar size, they both gain in inverse proportion to their relative actual size.

It is desirable in this study to point out that while the savings indicated are relative to the present price level, the same price level is not necessary to show the benefits to be derived from consolidation. Any change in the price level will not correct the fundamental weakness of the counties though it might relieve, somewhat, the debtor counties, by alleviating the financial strain.

Counties may accept general consolidation such as is suggested in this thesis. If they do not, it is but a matter of time before state centralization gradually assumes jurisdiction over various county functions. Functional consolidation, where several counties band together to operate a joint county hospital or poor house, is already practised by various counties in the country and indicates fundamental county weakness. State governmental agencies are assuming more and more policing and highway patrol, health, educational, assessing and taxing jurisdiction. These facts indicate that we are heading toward state centralization. If the county would remain, it must justify its existence and so reorganize its boundaries as to give the people economic, efficient government.

We have noted that history shows counties were formed

as results of local need or chicanery fostered by certain interests, both of which, however justified at the time, did not help to form the counties in accord with any economic plan then, and since several of the counties are not now justified, it is not unreasonable to suggest a regrouping which would make all consolidated counties fundamentally sound economic units now.

Reorganization will show savings not discussed in this thesis, but general county consolidation such as is indicated by this study will retain for the people local democratic government such as will not be true if state centralization takes over the county functions.

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TABLE A
COMPARATIVE STATEMENT OF COUNTY POPULATION
IN ARIZONA, 1920 AND 1930

| County | Total Population* | | Indian Population | | % Indian Population | |
|------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------|
| | 1930 ¹ | 1920 ² | 1930 ¹ | 1920 ² | 1930 | 1920 |
| Apache | 17,765 | 13,196 | 11,732 | 7,850 | 66.0% | 59.4% |
| Cochise | 40,998 | 46,465 | 108 | 85 | 0.2 | 0.1 |
| Coconino | 14,064 | 9,982 | 4,247 | 2,969 | 30.2 | 29.7 |
| Gila | 31,016 | 25,678 | 2,016 | 1,647 | 6.5 | 6.4 |
| Graham | 10,373 | 10,148 | 724 | 601 | 7.0 | 5.9 |
| Greenlee | 9,886 | 15,362 | 5 | 1 | .05 | .0 |
| Maricopa | 150,970 | 89,576 | 3,845 | 2,642 | 2.5 | 2.9 |
| Mohave | 5,572 | 5,259 | 661 | 714 | 11.9 | 13.5 |
| Navajo | 21,202 | 16,077 | 10,126 | 7,752 | 47.7 | 48.2 |
| Pima | 55,676 | 34,680 | 5,305 | 4,270 | 9.5 | 12.3 |
| Pinal | 22,081 | 16,130 | 3,425 | 3,102 | 15.5 | 19.2 |
| Santa Cruz | 9,684 | 12,689 | 41 | 77 | 0.4 | 0.6 |
| Yavapai | 28,470 | 24,016 | 433 | 420 | 1.5 | 1.7 |
| Yuma | 17,816 | 14,904 | 1,058 | 859 | 5.9 | 5.8 |
| | 435,573 | 334,162 | 43,726 | 32,989 | 10.0% | 9.8% |

* Includes Indian population.

1. 15th Census of the United States, "Population," Vol. III, Part 1, 1930, U.S. Dept. of Commerce, Bur. of the Census.

2. 14th Census of the United States, "Population," Vol. III, Part I, 1920, U.S. Dept. of Commerce, Bur. of the Census.

TABLE B
 COMPARATIVE STATEMENT OF COUNTY ASSESSMENTS
 IN ARIZONA FOR YEARS 1926-1934

| County | 1934 ¹ | 1932 ² | 1930 ³ | 1928 ⁴ | 1926 ⁵ |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Apache | \$6,086,744 | \$7,070,450 | \$8,535,255 | \$9,009,656 | \$8,739,092 |
| Cochise | 41,116,867 | 60,255,670 | 108,155,088 | 110,048,414 | 108,563,443 |
| Coconino | 14,849,455 | 16,383,670 | 20,869,550 | 20,633,573 | 20,089,113 |
| Gila | 16,446,506 | 25,695,931 | 77,406,109 | 77,749,050 | 82,801,627 |
| Graham | 7,151,398 | 8,690,032 | 11,665,205 | 11,358,213 | 11,993,206 |
| Greenlee | 10,428,698 | 18,623,447 | 28,030,722 | 27,461,650 | 23,146,182 |
| Maricopa | 96,315,513 | 126,889,924 | 153,802,843 | 132,399,944 | 119,953,042 |
| Mohave | 11,718,073 | 13,397,811 | 15,810,632 | 15,684,779 | 15,169,636 |
| Navajo | 8,135,961 | 9,864,571 | 11,847,859 | 11,419,305 | 10,828,373 |
| Pima | 50,507,862 | 66,597,114 | 89,271,181 | 79,185,151 | 69,185,572 |
| Pinal | 24,716,385 | 32,564,270 | 64,387,445 | 59,148,730 | 54,226,642 |
| Santa Cruz | 5,938,578 | 8,393,709 | 11,873,702 | 12,255,255 | 11,953,504 |
| Yavapai | 45,288,424 | 56,996,862 | 85,967,171 | 89,323,899 | 93,394,465 |
| Yuma | 18,083,223 | 21,918,954 | 27,323,047 | 26,058,399 | 23,119,500 |
| Totals | \$356,783,687 | 473,342,415 | 714,945,809 | 681,736,018 | 653,163,397 |

1. Table 17, 12th Biennial Rept. of State Tax Commission, 1934.
2. " " 11th " " " " " " 1932.
3. " " 10th " " " " " " 1930.
4. " " 9th " " " " " " 1928.
5. " " 8th " " " " " " 1926.

TABLE C

COMPARATIVE STATEMENT OF STATE ASSESSMENT FOR
ARIZONA FOR YEARS 1926-1934 INCLUSIVE¹

| | |
|------|---------------|
| 1926 | \$653,163,397 |
| 1927 | 673,127,177 |
| 1928 | 681,736,018 |
| 1929 | 700,890,801 |
| 1930 | 714,945,809 |
| 1931 | 674,729,235 |
| 1932 | 473,342,415 |
| 1933 | 386,871,751 |
| 1934 | 356,783,687 |

1. Table 17, 12th Biennial Rept. of State Tax Commission,
1934.

TABLE D
COUNTY TAX RATE IN ARIZONA PER \$100 VALUATION

| County | 1934 ¹ | 1932 ² | 1930 ³ | 1928 ⁴ | 1926 ⁵ |
|--------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Apache | \$ 2.81 | \$ 2.67 | \$ 2.52 | \$ 2.43 | \$ 2.06 |
| Cochise | 1.85 | 1.52 | .76 | .71 | .62 |
| Coconino | 1.4837 | 1.4332 | 1.1842 | 1.2436 | 1.1006 |
| Gila | 2.8423 | 1.84 | .8999 | .9558 | .8744 |
| Graham | 3.44 | 2.56 | 1.92 | 1.86 | 1.95 |
| Greenlee | 2.37 | 1.20 | 1.20 | 1.10 | 1.22 |
| Maricopa | 2.56 | 2.03 | 1.81 | 1.52 | 1.43 |
| Mohave | 2.3008 | 2.1869 | 2.1932 | 2.1912 | 2.066 |
| Navajo | 2.855 | 2.3758 | 1.9983 | 1.9016 | 2.0356 |
| Pima | 1.987 | 1.38 | 1.22 | 1.2754 | 1.21 |
| Pinal | 2.00 | 1.56 | .9162 | .951 | .943 |
| Santa Cruz | 3.0171 | 2.2562 | 1.5642 | 1.72808 | 1.64092 |
| Yavapai | 1.51 | 1.2701 | .7856 | .8112 | .75 |
| Yuma | 2.60 | 2.13 | 1.90 | 1.73 | 1.82 |
| Average Rate | | | 1.2543 | 1.18 | 1.107 |

1. Table 17, 12th Biennial Rept. of State Tax Com., 1934.
2. " " 11th " " " " " " 1932.
3. " " 10th " " " " " " 1930.
4. " " 9th " " " " " " 1928.
5. " " 8th " " " " " " 1926.

TABLE E
TOWN, RURAL AND INDIAN POPULATION IN ARIZONA

| County | Town Population* ¹ (Towns over 700) 1930 | Rural Population ¹ 1930 | Indian Population ² 1930 |
|------------|-----------------------------------------------------------|------------------------------------------|-------------------------------------------|
| Apache | 1,384 | 4,649 | 11,732 |
| Cochise | 29,428 | 11,462 | 108 |
| Coconino | 6,045 | 3,772 | 4,247 |
| Gila | 17,328 | 11,672 | 2,016 |
| Graham | 6,482 | 3,167 | 724 |
| Greenlee | 8,411 | 1,470 | 5 |
| Maricopa | 74,037 | 73,088 | 3,845 |
| Mohave | 2,257 | 2,654 | 661 |
| Navajo | 5,020 | 6,056 | 10,126 |
| Pima | 36,583 | 13,788 | 5,305 |
| Pinal | 13,193 | 5,463 | 3,425 |
| Santa Cruz | 6,716 | 2,927 | 41 |
| Yavapai | 20,350 | 7,687 | 433 |
| Yuma | 6,573 | 10,185 | 1,058 |

* Excludes Indian population.

1. Arizona Yearbook, 1930, pp. 169-326.

2. 15th Census of the United States, "Population," Vol. III, Part 1, U. S. Department of Commerce, Bureau of the Census, 1930.

TABLE F

DELINQUENT TAXES IN ARIZONA, JUNE 30, 1934¹

| | |
|------------|--------------|
| Apache | \$ 190,747 |
| Cochise | 989,755 |
| Coconino | 126,969 |
| Gila | 943,658 |
| Graham | 188,043 |
| Greenlee | 279,942 |
| Maricopa | 4,557,244 |
| Mohave | 255,975 |
| Navajo | 255,085 |
| Pima | 1,137,244 |
| Pinal | 607,585 |
| Santa Cruz | 243,285 |
| Yavapai | 522,107 |
| Yuma | 1,294,230 |
| Total | \$11,591,869 |

1. Twelfth Biennial Report of the State Tax Commission, 1934, p. 19.

TABLE G
AREA STATISTICS FOR ARIZONA COUNTIES¹

| County | Square Miles | Acres | Nat'l Gov't Land: Indian Res. Nat'l Forest Nat'l Domain | State Land |
|------------|--------------|------------|------------------------------------------------------------------|------------|
| Apache | 11,379 | 7,282,560 | 5,029,087 | 572,624 |
| Cochise | 6,170 | 3,948,800 | 1,113,998 | 1,190,989 |
| Coconino | 18,623 | 11,918,720 | 9,996,440 | 727,710 |
| Gila | 4,699 | 3,007,360 | 2,959,812 | 25,919 |
| Graham | 4,630 | 2,963,200 | 2,240,412 | 332,978 |
| Greenlee | 1,878 | 1,201,920 | 1,092,756 | 58,427 |
| Maricopa | 8,891 | 5,690,240 | 2,822,472 | 308,761 |
| Mohave | 13,390 | 8,569,600 | 3,453,495 | 468,844 |
| Navajo | 9,899 | 6,335,360 | 4,625,339 | 337,497 |
| Pima | 9,505 | 6,083,200 | 2,503,896 | 677,758 |
| Pinal | 5,380 | 3,443,200 | 1,808,830 | 570,948 |
| Santa Cruz | 1,229 | 786,560 | 430,440 | 64,441 |
| Yavapai | 8,150 | 5,216,000 | 3,161,298 | 739,421 |
| Yuma | 9,987 | 6,391,680 | 3,540,939 | 202,816 |
| Totals | 113,810 | 72,838,400 | 44,779,214 | 6,279,133 |

1. Arizona Yearbook, 1930, pp. 169-326.

TABLE H
COMPARATIVE ASSESSED VALUATIONS BY COUNTIES
OF ALL TAXABLE PROPERTY IN ARIZONA

| | | | | | |
|------------|--------|------------|--------|------------|--------|
| -1934-1 | | -1933-1 | | -1932-2 | |
| Maricopa | 27.00% | Maricopa | 25.97% | Maricopa | 26.81% |
| Pima | 14.16 | Pima | 13.42 | Pima | 14.07 |
| Yavapai | 12.69 | Yavapai | 13.33 | Cochise | 12.73 |
| Cochise | 11.53 | Cochise | 12.60 | Yavapai | 12.04 |
| Pinal | 6.93 | Pinal | 6.63 | Pinal | 6.88 |
| Yuma | 5.07 | Gila | 5.60 | Gila | 5.43 |
| Gila | 4.61 | Yuma | 4.74 | Yuma | 4.63 |
| Coconino | 4.16 | Coconino | 3.88 | Greenlee | 3.93 |
| Mohave | 3.28 | Greenlee | 3.40 | Coconino | 3.46 |
| Greenlee | 2.92 | Mohave | 3.14 | Mohave | 2.83 |
| Navajo | 2.28 | Navajo | 2.16 | Navajo | 2.08 |
| Graham | 2.00 | Graham | 1.88 | Graham | 1.85 |
| Apache | 1.71 | Santa Cruz | 1.63 | Santa Cruz | 1.77 |
| Santa Cruz | 1.66 | Apache | 1.62 | Apache | 1.49 |
| -1931-2 | | -1930-3 | | -1929-3 | |
| Maricopa | 22.95% | Maricopa | 21.51% | Maricopa | 20.31% |
| Cochise | 14.66 | Cochise | 15.13 | Cochise | 15.34 |
| Pima | 13.08 | Pima | 12.49 | Yavapai | 13.26 |
| Yavapai | 11.65 | Yavapai | 12.02 | Pima | 11.88 |
| Gila | 9.56 | Gila | 10.84 | Gila | 11.03 |
| Pinal | 8.66 | Pinal | 9.00 | Pinal | 8.93 |
| Yuma | 4.06 | Greenlee | 3.92 | Greenlee | 4.01 |
| Greenlee | 3.94 | Yuma | 3.82 | Yuma | 3.78 |
| Coconino | 2.91 | Coconino | 2.92 | Coconino | 2.90 |
| Mohave | 2.31 | Mohave | 2.21 | Mohave | 2.23 |
| Santa Cruz | 1.70 | Santa Cruz | 1.66 | Santa Cruz | 1.78 |
| Navajo | 1.69 | Navajo | 1.66 | Graham | 1.68 |
| Graham | 1.60 | Graham | 1.63 | Navajo | 1.64 |
| Apache | 1.23 | Apache | 1.19 | Apache | 1.23 |
| -1928-4 | | -1927-4 | | -1926-5 | |
| Maricopa | 19.42% | Maricopa | 18.43% | Maricopa | 18.37% |
| Cochise | 16.14 | Cochise | 16.02 | Cochise | 16.62 |
| Yavapai | 13.10 | Yavapai | 14.26 | Yavapai | 14.30 |
| Pima | 11.62 | Gila | 12.22 | Gila | 12.68 |
| Gila | 11.40 | Pima | 10.82 | Pima | 10.59 |
| Pinal | 8.67 | Pinal | 8.47 | Pinal | 8.30 |
| Greenlee | 4.03 | Greenlee | 4.09 | Greenlee | 3.54 |
| Yuma | 3.82 | Yuma | 3.83 | Yuma | 3.54 |
| Coconino | 3.03 | Coconino | 3.04 | Coconino | 3.08 |
| Mohave | 2.30 | Mohave | 2.33 | Mohave | 2.32 |
| Santa Cruz | 1.80 | Santa Cruz | 1.78 | Santa Cruz | 1.83 |
| Navajo | 1.68 | Graham | 1.73 | Graham | 1.83 |
| Graham | 1.67 | Navajo | 1.64 | Navajo | 1.66 |
| Apache | 1.32 | Apache | 1.34 | Apache | 1.34 |

1. 12th Biennial Report, Arizona Tax Commission, 1934.
 2. 11th " " " " " " 1932.
 3. 10th " " " " " " 1930.
 4. 9th " " " " " " 1928.
 5. 8th " " " " " " 1926.

TABLE I

TABLE SHOWING THE RELATION BETWEEN PER CAPITA WEALTH AND
THE TOTAL COUNTY TAX LEVY ON THE \$100 VALUATION
IN THE 33 COUNTIES OF MISSOURI¹

| County | Assessed Valuation 1928 | Population Census 1920 | Ave. Per Capita Wealth | Total County Tax Levy 1929 |
|----------------|-------------------------------|------------------------------|------------------------------|----------------------------------|
| Ozark | \$ 3,431,077 | 11,125 | \$ 308.41 | \$.95 |
| Texas | 10,110,586 | 20,548 | 492.05 | 1.00 |
| Iron | 5,784,424 | 9,458 | 611.51 | 1.05 |
| Howell | 14,293,519 | 21,102 | 677.35 | .94 |
| Phelps | 10,341,929 | 14,941 | 692.18 | 1.00 |
| Polk | 14,448,489 | 20,351 | 709.96 | .75 |
| Miller | 12,218,073 | 15,567 | 784.87 | .71 |
| Stoddard | 23,372,758 | 29,755 | 785.50 | .75 |
| Newton | 20,451,228 | 24,886 | 821.80 | .75 |
| Jasper | 64,342,873 | 75,941 | 847.27 | .65 |
| Lawrence | 20,669,582 | 24,211 | 853.72 | .75 |
| New Madrid | 23,922,816 | 25,180 | 950.07 | .99 |
| Cape Girardeau | 30,686,908 | 29,839 | 1,028.41 | .57 |
| Osage | 14,261,635 | 13,559 | 1,051.95 | .85 |
| Morgan | 12,642,163 | 12,015 | 1,052.20 | .85 |
| Ste. Genevieve | 10,493,320 | 9,809 | 1,069.76 | .78 |
| Cole | 27,086,980 | 24,680 | 1,097.52 | .82 |
| Marion | 33,787,920 | 30,226 | 1,117.85 | .60 |
| Callaway | 27,318,644 | 23,007 | 1,187.40 | .45 |
| Boone | 36,665,708 | 29,672 | 1,236.00 | .72 |
| Montgomery | 19,632,717 | 15,233 | 1,288.82 | .44 |
| Sullivan | 23,726,346 | 17,781 | 1,334.37 | .72 |
| Adair | 29,088,215 | 21,404 | 1,359.10 | .50 |
| Monroe | 23,432,622 | 16,414 | 1,420.60 | .62 |
| Cooper | 29,887,264 | 19,308 | 1,547.93 | .48 |
| Shelby | 21,427,936 | 13,617 | 1,573.62 | .75 |
| Howard | 22,234,825 | 13,997 | 1,588.54 | .61 |
| La Fayette | 49,000,591 | 30,006 | 1,633.03 | .55 |
| Audrian | 36,866,036 | 20,589 | 1,790.57 | .51 |
| Caldwell | 25,044,672 | 13,849 | 1,808.41 | .55 |
| Harrison | 35,868,209 | 19,719 | 1,818.96 | .53 |
| Holt | 30,006,198 | 14,084 | 2,130.51 | .52 |
| Nodaway | 64,417,854 | 27,744 | 2,321.87 | .55 |

1. W. L. Bradshaw, "The Missouri County Court," University of Missouri Studies, Vol. VI, #2, April, 1931, p. 120.

TABLE J

BONDED INDEBTEDNESS OF ARIZONA COUNTIES AS OF JUNE 30, 1934¹

| County | Net Liability of Bonded Debt |
|------------|---------------------------------|
| Apache | \$ 418,739 |
| Cochise | 1,045,985 |
| Coconino | 1,079,476 |
| Gila | 1,345,298 |
| Graham | 411,727 |
| Greenlee | 314,853 |
| Maricopa | 37,129,130 |
| Mohave | 450,838 |
| Navajo | 690,889 |
| Pima | 5,768,192 |
| Pinal | 1,574,523 |
| Santa Cruz | 1,066,166 |
| Yavapai | 1,881,430 |
| Yuma | 3,450,773 |

1. Twelfth Biennial Report of the State Tax Commission,
1934, p. 17.

TABLE K
CLASSIFICATION OF NATIONAL GOVERNMENT
LAND IN ARIZONA COUNTIES¹

| County | Military Reservations | Nat'l Forests | Nat'l Monuments | Indian Reserves | Public Domain | Total (acres) |
|----------------------------------------------|-----------------------|---------------|-----------------|-----------------|---------------|---------------|
| Apache | | 484,167 | 26,625 | 4,918,295 | none | 5,029,087 |
| Cochise | 64,640 | 543,358 | none | none | 506,000 | 1,113,998 |
| Coconino | | 3,406,571 | 613,120 | 5,151,749 | 825,000 | 9,996,440 |
| Gila | | 1,676,963 | none | 1,203,849 | 79,000 | 2,959,812 |
| Graham | | 397,264 | " | 1,118,148 | 725,000 | 2,240,412 |
| Greenlee | | 749,628 | " | none | 343,128 | 1,092,756 |
| Maricopa | 1,920 | 693,821 | 19,041 | 207,690 | 2,000,000 | 2,822,472 |
| Mohave | | 28,099 | 40 | 435,356 | 2,990,000 | 3,453,495 |
| Navajo | | 463,763 | 2,234 | 3,859,342 | 300,000 | 4,625,339 |
| Pima | 3,720 | 385,487 | 480 | 544,209 | 1,570,000 | 2,503,896 |
| Pinal | 3,720 | 224,421 | 480 | 544,209 | 1,036,000 | 1,808,830 |
| Santa Cruz | | 425,550 | 10 | none | 4,880 | 430,440 |
| Yavapai | 1,960 | 1,988,278 | 11,060 | 476 | 1,160,000 | 3,161,298 |
| Yuma | 240 | none | none | 240,699 | 3,300,000 | 3,540,939 |
| Total Acres of entire Arizona area | | | | | | 73,931,840 |
| Total Acres Nat'l Government Land in Arizona | | | | | | 44,779,214 |

1. Arizona Yearbook, 1930, pp. 169-326.

TABLE L

TOTAL AMOUNTS RECEIVED BY ARIZONA COUNTIES FROM THE
NATIONAL FOREST SERVICE UNDER THE 25% FUND
(Fiscal Year 1929-1930)¹

| County | Amount Received |
|------------|--------------------|
| Apache | \$ 3,561.14 |
| Cochise | 2,704.88 |
| Coconino | 40,117.13 |
| Gila | 6,236.17 |
| Graham | 1,706.51 |
| Greenlee | 00 |
| Maricopa | 2,485.79 |
| Mohave | 21.84 |
| Navajo | 13,164.45 |
| Pima | 1,930.41 |
| Pinal | 939.00 |
| Santa Cruz | 2,131.03 |
| Yavapai | 14,196.46 |
| Yuma | 00 |

1. Arizona Yearbook, 1930, pp. 169-326.

TABLE M
RELATIVE IMPORTANCE AND CLASSIFICATION OF
VARIOUS GROUPS OF ASSESSED PROPERTY
(000 omitted)

| County | Produ- tive Mines ¹ | Urban ² | Rail roads ³ | Graz- ing Lands ⁴ | Irrigat- ed Lands ⁵ | Dry Farm Lands ⁶ |
|------------|--------------------------------------|--------------------|----------------------------|------------------------------------|-----------------------------------|-----------------------------------|
| Apache | | \$ 265 | \$ 3,298 | \$ 56 | \$ 25 | \$ 15 |
| Cochise | \$12,000 | 7,445 | 11,645 | 582 | 101 | 129 |
| Coconino | | 2,021 | 7,930 | 196 | - | 112 |
| Gila | | 1,837 | 1,529 | 8 | - | 18 |
| Graham | | 849 | 3,417 | 45 | 243 | 20 |
| Greenlee | | 1,839 | 1,284 | 118 | - | - |
| Maricopa | | 43,344 | 11,718 | 262 | 5,279 | 243 |
| Mohave | | 1,156 | 6,392 | 76 | 11 | - |
| Navajo | | 1,859 | 3,777 | 34 | 22 | 18 |
| Pima | | 18,665 | 5,894 | 82 | 145 | 145 |
| Pinal | 3,000 | 1,306 | 7,243 | 82 | 126 | 115 |
| Santa Cruz | | 2,830 | 1,169 | 191 | 65 | - |
| Yavapai | 712 | 5,078 | 10,295 | 299 | 325 | 243 |
| Yuma | | 3,560 | 8,293 | - | 206 | 87 |

1. Table 37, 12th Biennial Rept., Ariz. Tax Com., p. 126.
 2. Table 36, " " " " " " p. 124.
 3. Table 12, " " " " " " pp. 71-72.
 4. Table 31, " " " " " " p. 118.
 5. Table 29, " " " " " " p. 114.
 6. Table 30, " " " " " " p. 116.

TABLE N
RELATIONSHIP OF GENERAL FUND TAXES
TO GENERAL COUNTY TAXES¹

| County | Total General County Taxes | Amount General Fund Taxes | Percentage of County Taxes |
|------------|-------------------------------|---------------------------------|----------------------------------|
| Apache | \$ 171,037 | \$ 53,435 | 31.24% |
| Cochise | 760,662 | 281,980 | 37.07 |
| Coconino | 220,321 | 115,588 | 52.46 |
| Gila | 467,460 | 203,213 | 43.47 |
| Graham | 246,008 | 64,305 | 26.14 |
| Greenlee | 247,160 | 70,571 | 28.55 |
| Maricopa | 2,465,677 | 657,835 | 26.68 |
| Mohave | 269,609 | 119,173 | 44.20 |
| Navajo | 232,281 | 74,989 | 32.28 |
| Pima | 1,003,591 | 272,237 | 27.13 |
| Pinal | 494,328 | 151,536 | 30.66 |
| Santa Cruz | 179,173 | 59,588 | 33.26 |
| Yavapai | 683,855 | 221,505 | 32.39 |
| Yuma | 470,164 | 176,438 | 37.53 |

1. Table 17, Twelfth Biennial Report of the State Tax
Commission, 1934, p. 80.

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